

Horti Lighting Protocol

Version 1.0.3 March 22, 2024

Change I	Management		
Versio n	Date	Author(s)	Changes
0.9	5 April 2023	Hoogendoorn , Priva, Ridder	Draft version for comments lamp suppliers
1.0	1 May 2023	Hoogendoorn , Priva, Ridder	Final version based on feedback lamp suppliers
1.0.1	12 June 2023	Hoogendoorn , Priva, Ridder	Mistake corrected with kW vs kWh
1.0.2	18 December 2023	•	Clarified working ELC module verification mechanism
1.0.3	22 March 2024	_	Clarified working ELC module verification mechanism; minor clarifications.

Copyright

Copyright © 2024 Stichting Hortivation., Europa 1, 2672 ZX Naaldwijk, The Nederlands. All rights reserved.

Copyright © 2024 Hortivation Page 1 of 46



Copyright © 2024 Hortivation Page 2 of 46



Glossary

Definition	
Automation system	Horticulture process control automation system
Channels	Via Channels information can be transmitted over serial
	lines.
Control area	A defined area controlled as a whole by the Automation
	system.
General Settings	General settings to read information of the Lighting
	system or set certain setting of the Lighting system.
Horticulture process control	The system to automatically control a wide range of
automation system	processes in the greenhouse.
Horticulture Lighting Protocol	Description of a Modbus based interface to connect
(HLP)	Horticulture lighting systems to Horticulture process
	control automation systems.
Horticulture lighting system	The gateway and network of the lighting system in the
	greenhouse.
Lighting system	Horticulture lighting system
Modbus register	The Modbus registers contain process values used to
	control the Control areas.
Module	The Protocol is set up modular to meet the needs of all
	kinds of Lighting system technologies. The modules are
	defined in article 3.2.
Protocol	Horticulture Lighting Protocol (HLP)
Verification register	Via these registers a light recipe can be verified.



Table of Contents

2.	System architecture	5
3.	Modules	5
4.	Options	5
5.	Modbus	8
6.	Modbus registers	8
7.	Modbus timing	9
	Modbus functions	
9.	Lighting system	. 10
	Modbus registers	



1. Horticulture Lighting Protocol (HLP)

1.1. The Horticulture Lighting Protocol (HLP), hereafter named 'Protocol', describes a Modbus based interface to connect Horticulture lighting systems, hereafter named 'Lighting systems', to Horticulture process control automation systems, hereafter named 'Automation systems'.

2. System architecture

- 2.1. The Protocol describes how the Lighting system and the Automation system communicate. The Protocol assumes the Lighting system functions as Modbus slave and the Automation system as Modbus master.
- 2.2. Automation system à Ethernet/RS-485 à Lighting system Gateway à Lighting system network.

3. Modules

- 3.1. The Protocol is set up modular to meet the needs of all kinds of Lighting system technologies. The most basic way to use the Protocol is to only support the base functionality of communicating setpoints per Control area per channel.
- 3.2. There are four modules to expand on that functionality:
 - I. Module System status Provide feedback to the Automation system about the status of the Lighting system.
 - II. Module Power Provide feedback about the actual power usage of the luminaires.
 - III. Module Exact Light Control Makes it possible to control the exact output, per spectrum of a Control area in μ mol/s (or μ mol/s/m²).
 - IV. Module Universal Measurements Makes up to ten free to use measurements per Control area available.
- 3.3. When a specific Module is supported, all parameters within this Module must be properly supported.

4. Options

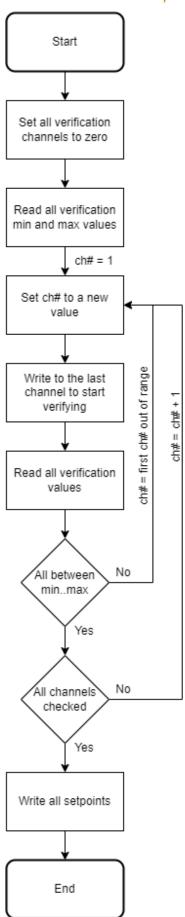
- 4.1. The Protocol assumes Control areas (groups of lamps) with the same settings. There are 100 Control areas available in the Protocol design. Each control area can have up to eight Channels. Not all channels have to be used.
- 4.2. All individual Channels can be controlled by percentage or by μ mol/s (or μ mol/s/m²). Control using a percentage is the easiest solution, this gives control over each physical Channel of the lamps. The percentage is assumed to be linear to the light output of the lamps.
- 4.3. In case precise control over the light spectrum is preferred, the lamps should be controlled using μ mol/s/m² (or μ mol/s). In this case verification of the light recipe is necessary, the Protocol provides this option via Verification registers.



4.4. The verification process works in several successive steps.

- Automation system sets at start of verification process all setpoints to zero.
- The Automation system sends one or more values to the Verification registers,
 the verification setpoint of the last channel in use must be included in one write action.
- The Lighting systems checks these values against the lamp's capabilities.
- The Automation system reads back the minimum and maximum values for each Channel in use.
- The Automation system repeats the steps until setpoints for all channels are calculated.
- The Automation system sets the desired setpoints.
- Keep in mind that to trigger the calculation or execution of the setpoints the last configured channel must be written as well. Refer to paragraph 7.4.







- 4.5. A gateway of the Lighting system that supports Module III must calculate the Verification registers of a Control area within 800ms of the last change of any Verification setpoint of a Control area.
- 4.6. When the luminaires have channels that influence each other it is required to either implement Module I (Module System status) or Module III (Module Exact Light Control). In case implementation of Module I is chosen, when the automation system sets a setpoint combination that cannot be realized, the lighting system should apply a setpoint that reflects the setpoint combination from the automation system the most. The automation system can read back the realized level from the lighting system.

5. Modbus

- 5.1. The Protocol makes use of standard Modbus, either Modbus TCP or Modbus RTU via RS-485 half-duplex wiring. Parameters to control the Lighting systems are exchanged via 16-bit integer holding registers.
- 5.2. Keeping the large numbers of parameters in mind, Modbus TCP is preferred, especially for Lighting systems with a significant number of Control areas.
- 5.3. The Protocol uses big-endian byte order.
- 5.4. When using Modbus TCP, the gateway of the Lighting system uses a static IP address.
- 5.5. For the Modbus TCP interface port 502 is used.
- 5.6. The gateway of the Lighting system needs to support a well-documented and always available method to reset the Modbus and IP settings back to default.

6. Modbus registers

- 6.1. There are two tables attached which describe the available Modbus registers. The first table with General settings provides the option to read information of the Lighting system or set certain settings of the Lighting system.
- 6.2. Modbus registers 50 up to and including 99 can be implemented freely by the Lighting system manufacturer.
- 6.3. The second table describes the Modbus registers containing process values, used to control the Control areas.
- 6.4. The last data in Modbus registers 0..99 and "Power on setpoint Control Area n Channel x" should be stored permanent in the HW of the lighting system. Repeated writes to these Modbus registers should not lead to excessive wear.
- 6.5. When a value is written to one of the General Settings registers it is required to apply the setting(s) manually. This can be achieved by writing a value to "Apply settings". Al values written to Modbus registers from the General settings table will be applied at once.



- 6.6. As there are two options for physical connection with the gateway, Modbus RTU and Modbus TCP, the relevant parameters should be used, 20..24 or 30..43. If both interfaces are available both parameter ranges are active.
- 6.7. The Modbus registers used in HLP:
 - Registers 0 ... 49 are used for current implementation for general settings.
 - Registers 50...99 can be used for manufacturer specific implementation within current implementation.
 - Registers 100...8999 are used for current implementation for parameter settings.
 - Registers 9000...31999 are reserved for future expansion of the protocol.
- 6.8. There is a 1:1 relation between a channel and a color. Within a control area one channel represents one color or one spectrum. It is not allowed to use multiple channels for the same color.

7. Modbus timing

- 7.1. To be able to control large amounts of Control areas a decent Modbus response time should be achieved, less than 50ms.
- 7.2. No specific order of read or writes or 'blocks of writes' should be required, unless explicitly required by this standard.
- 7.3. A write action should not directly result in traffic over the network of the Lighting system. The gateway is responsible for regulating the timing and the amount of traffic over the (wireless) network of the Lighting system.
- 7.4. When using the module Exact Light Control only, it is expected that the setpoints of the channels have interdependencies. To make sure that a valid combination of setpoints has been communicated, the lighting system should assume that when the setpoint of the last channel in use of a control area has been written, all setpoint changes within the control area have been communicated and should apply the setpoints of the control area. For example, if a control area uses four channels, when a setpoint to channel four is written all setpoints for that control area must be applied. The same mechanism is used for the verification setpoint option.

8. Modbus functions

- 8.1. Modbus Function Code 3 is used for reads, and Function Code 16 for writes.
- 8.2. The "Status Control Area n" register can be used to provide information about the status of the Lighting system. 0 indicates that everything is fine for that specific Control area. Bit 0..7 are reserved for specific use, bits 8..15 may be used by the Lighting system to indicate manufacturer-specific errors. Unresponsive luminaires should not be included in these Modus registers.
- 8.3. Non-consecutive Modbus registers must be readable and writable. Modbus registers associated with unused control areas must be readable and writable too.



8.4. Modbus has the option to respond to requests with exception responses, exceptions 1 to 4 should be implemented. As described at: modbus.org

9. Lighting system

- 9.1. When using percentages to control a Control area, a setpoint greater than 0 and lower than the minimum setpoint of a luminaire, the luminaire assumes the minimum setpoint.
- 9.2. When a setpoint is received at the gateway, the setpoint must be realized within 20 seconds.
- 9.3. After power on, the gateway must be responsive within 120 seconds.
- 9.4. After power on of a luminaire, it must be responsive within 180 seconds.
- 9.5. After power on of a luminaire and doesn't get a setpoint of the gateway the luminaire should fall back to the predefined power on setting setpoint.
- 9.6. The protocol describes the use up to 100 Control areas and maximum 8 Channels per Control area, these are the limits of the Protocol, the Lighting system can have lower limits.
- 9.7. The Automation system is expected to support controlling multiple Lighting systems gateways at the same time independently.

10. Modbus registers

- 10.1. There are multiple Modbus registers per Control area. Al Modbus registers must be implemented and interpreted as described below.
- 10.2. Status Control Area n: Via these Modbus registers issues with a Control area can be communicated. A 0 means everything is okay, any other value means a fault which could result in the luminaires in the whole Control area to be turned off. Luminaires being unresponsive should not be reflected in this Modbus register.

Bit 0	General issue
Bit 1	Gateway configuration issue
Bit 2	Lighting system (wireless) network issue
Bit 3	Reserved
Bit 4	Reserved
Bit 5	Reserved
Bit 6	Reserved
Bit 7	Reserved

Bit 8..15 can be used to indicate additional issues.



- 10.3. Number of luminaires Control Area n: The number of luminaires that are configured for the given Control area and should be available if the Lighting system is working properly.
- 10.4. Luminaires Unresponsive Control Area n: The number of luminaires that are not responding to new setpoints or otherwise not functioning as desired, either measured or calculated.
- 10.5. Current Power Control Area n: The actual power usage of the Control area, either measured or calculated.
- 10.6. Max Power Control Area n: The maximum power the Control area could draw if all Channels are at maximum and all luminaires are functioning properly.
- 10.7. Minimum setpoint Control Area n Channel x: The technical minimum setpoint of this Channel of this Control area in percentage. This function is not required for Module Exact Light Control.
- 10.8. Power on setpoint Control Area n Channel x: The setpoint for this Channel of this Control area when the luminaire is powered on and no setpoint is communicated to the Lighting system or has reached the luminaires after 180 seconds, in percentage. To set power on setting to follow the last setpoint set this value to 6553.5.
- 10.9. Setpoint Control Area n Channel x: The setpoint for a Channel of a Control area in percentage.
- 10.10. Realized Control Area n Channel x: The value of the current realized setpoint of the Lighting system of Channel of a Control area in percentage.
- 10.11. Setpoint in micromole Control Area n Channel x: The setpoint for a Channel of a Control area in μ mol/s (or μ mol/s/m²).
- 10.12. Realized in μ mol/s (or μ mol/s/m²)Control Area n Channel x: Value of the current setpoint of the Lighting system of Channel of a Control area in μ mol/s (or μ mol/s/m²).
- 10.13. Verification Control Area n Channel x: A hypothetical setpoint for a Channel of a Control area in µmol/s (or µmol/s/m²). Writing to these Modbus registers results in the relevant "Verification minimum Control Area n Channel x" and "Verification minimum Control Area n Channel x" being calculated by the Lighting system. When there is a dependency between the Channels within a Control area which results in changed maximum and minimum values for the other Channels this Modbus register can be used to have the Lighting system calculate the maximum and minimum setpoints of the other Channels. Keep in mind that the maximum and minimum setpoint are only valid if just one parameter is changed. If more parameters must be changed a new verification has to be performed.



- 10.14. Verification minimum Control Area n Channel x: The minimum value a luminaire can output for the given setpoints in "Verification Control Area n Channel x" for this Channel in this Control area.
- 10.15. Verification maximum Control Area n Channel x: The maximum value a luminaire can output for the given setpoints in "Verification Control Area n Channel x" for this Channel in this Control area.
- 10.16. Universal Measurement x Control Area n: With these Modbus registers additional measurements can be made available. Implementation of these Modbus registers is not mandatory.

Page 12 of **46**



General Settings

Register	Parameter	Data-			
(Offset)	name	type	Multiplier	R/W	Range
	Serial Number				
0	first half	U16	1	Read	065535
	Serial Number				
1	second half	U16	1	Read	065535
-				Redu	003333
2	Product model	U16	1	Read	065535
	Firmware				
	version				
3	number Major	U16	1	Read	065535
	Firmware version				
1	number Minor	U16	1	Read	065535
4	number willor	016	1	Reau	005555
	Firmware				
	version				
5	number Patch	U16	1	Read	065535
	Hardware				
	version				
6	number Major	U16	1	Read	065535
	I I I I I I I I I I I I I I I I I I I				
	Hardware version				
7	number Minor	U16	1	Read	065535
,	Humber Willor	010	1	Neau	003333
	Hardware				
	version				
8	number Patch	U16	1	Read	065535
	Protocol				
9	version Major	U16	1	Read	065535
	-				
10	Protocol	1116	1	Dan d	0.05535
10	version Minor	U16	1	Read	065535
	Protocol				
11	version Patch	U16	1	Read	065535



					B'' 0 C -1 C 10 10
					Bit 0; System Status; 0=no/1=yes
					Bit 1; Power; 0=no/1=yes
					Bit 2; Exact Licht Control;
					0=no/1=yes
					Bit 3; Universal Measurements;
	Supported				0=no/1=yes
12	Modules	U16	1	Read	Bit 415; Reserved
13	Reserved				
14	Reserved				
15	Reserved				
16	Reserved				
17	Reserved				
18	Reserved				
19	Reserved				
20	Node address	U16	1	R/W	1247, 1 is default
					1200,
					2400,
					4800,
					9600, default
			0,01		19200,
			(value should be		38400,
			divided by 100,		57600,
21	Baud rate	U16	f.i. 12=1200:)	R/W	115200
22	Data bits	U16	1	R/W	1=7/2=8, 2=8 is default
23	Parity	U16	1	R/W	1=N/2=E/3=O, 2=E is default
24	Stop bit	U16	1	R/W	1=1/2=1.5/3=2, 1=1 is default
25	Reserved				
26	Reserved				
27	Reserved				
28	Reserved				
29	Reserved				



30	IP address first octet	U16	1	R/W	0255, 192 is default
31	IP address second octet	U16	1	R/W	0255, 168 is default
32	IP address third octet	U16	1	R/W	0255, 0 is default
33	IP address fourth octet	U16	1	R/W	1254, 100 is default
34	Reserved				
35	Netmask first octet	U16	1	R/W	0255, 255 is default
36	Netmask second octet	U16	1	R/W	0255, 255 is default
37	Netmask third octet	U16	1	R/W	0255, 255 is default
38	Netmask fourth octet	U16	1	R/W	0255, 0 is default
39	Reserved				
40	Gateway first octet	U16	1	R/W	0255, 192 is default
41	Gateway second octet	U16	1	R/W	0255, 168 is default
42	Gateway third octet	U16	1	R/W	0255, 0 is default
43	Gateway fourth octet	U16	1	R/W	1254, 1 is default
44	Reserved				
45	Appy settings	U16	1	R/W	065535, > 0 apply settings. The value returns to 0 after successful application of the settings.
46	Reserved				
47	Reserved				
48	Reserved				



49	Reserved		

Copyright © 2024 Hortivation Page 16 of 46



Parameters

	T	_	T		T	Module				
Register	Parameter	Data-								
(Offset)	name	type	Multiplier	R/W	Range	Base	(i)	(ii)	(iii)	(IV)
100	Status Control	1116	4	D = = =	0 (5525					
100	Area 1	U16	1	Read	065535		Х			
101	Status Control	U16	1	Dood	0 65525		.,			
101	Area 2	010	1	Read	065535		Х			
102	Status Control Area 3	U16	1	Read	065535					
	Alea 5	010	1	Reau	005555		Х			
•••	Status Control									
199	Area 100	U16	1	Read	065535		х			
133	Number of	010		Read	005555		^			
	luminaires									
	Control Area									
200	1	U16	1	Read	065535		х			
	Number of				-					
	luminaires									
	Control Area									
201	2	U16	1	Read	065535		х			
	Number of									
	luminaires									
	Control Area									
202	3	U16	1	Read	065535		х			
	Number of									
	luminaires									
	Control Area									
299	100	U16	1	Read	065535		Х			
	Luminaires									
	Unresponsive									
200	Control Area				0.65505					
300	1	U16	1	Read	065535		Х			
	Luminaires									
	Unresponsive Control Area									
301	2	U16	1	Dood	065535		.,			
301	Luminaires	010	1	Read	005535		Х			
	Unresponsive									
	Control Area									
302	3	U16	1	Read	065535		х			
		010	_	neau	005555					
	Luminaires	1								
	Unresponsive									
	Control Area									
399	100	U16	1	Read	065535		х			



	Current							
	Power							
	Control Area							
400	1	U16	10	Read	0.06553.5kW		х	
	Current							
	Power							
	Control Area							
401	2	U16	10	Read	0.06553.5kW		х	
101	Current	010	10	ricad	0.0.00000000000000000000000000000000000			
	Power							
	Control Area							
402	3	U16	10	Read	0.06553.5kW		v	
	3	010	10	Reau	0.00333.3844		Х	
	Current							
	Power							
	Control Area							
499	100	U16	10	Read	0.06553.5kW		Х	
	Max Power							
	Control Area							
500	1	U16	10	Read	0.06553.5kW		Х	
	Max Power							
	Control Area							
501	2	U16	10	Read	0.06553.5kW		Х	
	Max Power							
	Control Area							
502	3	U16	10	Read	0.06553.5kW		х	
	Max Power							
	Control Area							
599	100	U16	10	Read	0.06553.5kW		х	
	Minimum		_					
	setpoint							
	Control Area							
600	1 Channel 1	U16	10	Read	0.0100.0%	x		
000	Minimum	010	10	ricad	0.0100.070	^		
	setpoint Control Area							
601		1116	10	Dood	0.0.100.00/			
601	2 Channel 1	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
602	3 Channel 1	U16	10	Read	0.0100.0%	Х		
•••								
	Minimum							
	setpoint							
	Control Area							
699	100 Channel 1	U16	10	Read	0.0100.0%	х		



	Minimum							
	setpoint							
	Control Area							
700	1 Channel 2	U16	10	Read	0.0100.0%	х		
	Minimum							
	setpoint							
	Control Area		1.0					
701	2 Channel 2	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
702	3 Channel 2	U16	10	Read	0.0100.0%	Х		
•••								
	Minimum							
	setpoint							
	Control Area							
799	100 Channel 2	U16	10	Bood	0.0.100.09/	v		
לכו ו		010	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
800	1 Channel 3	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
801	2 Channel 3	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
000		114.6	10	D	0.0.400.00/			
802	3 Channel 3	U16	10	Read	0.0100.0%	Х		
	Minimum	1						
	setpoint							
	Control Area	1						
899	100 Channel 3	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
900	1 Channel 4	U16	10	Read	0.0100.0%	v		
300		010	10	nedu	0.0100.0%	Х		
	Minimum	1						
	setpoint	1						
	Control Area	1						
901	2 Channel 4	U16	10	Read	0.0100.0%	Χ		
	Minimum							
	setpoint	1						
	Control Area							
902	3 Channel 4	U16	10	Read	0.0100.0%	х		
	3 3				3.0200.070			
•••]]			



	Minimum							
	setpoint							
	Control Area							
999	100 Channel 4	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
1000	1 Channel 5	U16	10	Read	0.0100.0%	х		
1000	Minimum	010	10	Read	0.0100.070			
	setpoint							
	Control Area							
1001	2 Channel 5	U16	10	Read	0.0100.0%	v		
1001	<u> </u>	010	10	Reau	0.0100.0%	Х		
	Minimum							
	setpoint							
4000	Control Area							
1002	3 Channel 5	U16	10	Read	0.0100.0%	Χ		
•••								
	Minimum							
	setpoint							
	Control Area							
1099	100 Channel 5	U16	10	Read	0.0100.0%	Χ		
	Minimum							
	setpoint							
	Control Area							
1100	1 Channel 6	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
1101	2 Channel 6	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
	Control Area							
1102	3 Channel 6	U16	10	Read	0.0100.0%	х		
		0.10		11000	0.0.1.200.075			
•••	Minimum							
	setpoint							
	Control Area							
1199	100 Channel 6	U16	10	Read	0.0100.0%	х		
1133	Minimum	010	10	Read	0.0100.070	^		
	setpoint							
	Control Area							
1200		1116	10	Doo d	0.0.100.00/	V		
1200	1 Channel 7	U16	10	Read	0.0100.0%	Х		
	Minimum							
	setpoint							
4224	Control Area		10		0.0.400.004			
1201	2 Channel 7	U16	10	Read	0.0100.0%	Χ		



		•	•						
	Minimum								
	setpoint								
	Control Area								
1202	3 Channel 7	U16	10	Read	0.0100.0%	x			
	Minimum								
	setpoint								
	Control Area								
1299	100 Channel 7	U16	10	Read	0.0100.0%				
1233	Minimum	010	10	Neau	0.0100.078	X			
	setpoint								
1200	Control Area	114.6	40	D	0.0.400.00/				
1300	1 Channel 8	U16	10	Read	0.0100.0%	X			
	Minimum								
	setpoint								
	Control Area								
1301	2 Channel 8	U16	10	Read	0.0100.0%	х			
	Minimum								
	setpoint								
	Control Area								
1302	3 Channel 8	U16	10	Read	0.0100.0%	х			
	Minimum								
	setpoint								
	Control Area								
1399	100 Channel 8	U16	10	Read	0.0100.0%	x			
	Power on		_						
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1400	1 Channel 1	U16	10	R/W	setpoint		х		
1400	Power on	010	10	11,700	ЗСТРОПТ		^		
					0.0100.0%				
	setpoint								
1 101	Control Area	1116	10	D /\A/	6553.5=last				
1401	2 Channel 1	U16	10	R/W	setpoint		Х		
	Power on				0.0.100.00/				
	setpoint				0.0100.0%				
	Control Area		1.0	_ ,	6553.5=last				
1402	3 Channel 1	U16	10	R/W	setpoint		Х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1499	100 Channel 1	U16	10	R/W	setpoint		х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1500	1 Channel 2	U16	10	R/W	setpoint		х		
				. ,		1	1	l	.



		1	1	1	1	-	, ,	
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1501	2 Channel 2	U16	10	R/W	setpoint		х	
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1502	3 Channel 2	U16	10	R/W	setpoint		x	
		0.10		1., 11				
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1599	100 Channel 2	U16	10	R/W	setpoint		x	
1333	Power on	010	10	11,700	эстропт		^-	
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1600	1 Channel 3	1116	10	D /\A/				
1000		U16	10	R/W	setpoint		Х	
	Power on				0.0.400.00/			
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1601	2 Channel 3	U16	10	R/W	setpoint		х	
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1602	3 Channel 3	U16	10	R/W	setpoint		х	
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1699	100 Channel 3	U16	10	R/W	setpoint		х	
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1700	1 Channel 4	U16	10	R/W	setpoint		x	
	Power on							
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1701	2 Channel 4	U16	10	R/W	setpoint		x	
	Power on		-	,				
	setpoint				0.0100.0%			
	Control Area				6553.5=last			
1702	3 Channel 4	U16	10	R/W	setpoint		x	
	J Chamier 4	010	10	11,700	эстропп		^	
•••	Power on							
					0.0.100.00/			
	setpoint				0.0100.0%			
1700	Control Area	1116	10	D /\4/	6553.5=last			
1799	100 Channel 4	U16	10	R/W	setpoint		Х	



	Ι_		I	1	1	1	1 1		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1800	1 Channel 5	U16	10	R/W	setpoint		х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1801	2 Channel 5	U16	10	R/W	setpoint		x		
1001	Power on	010	10	11,700	Seeponie		 ^ 		
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1002		1116	10	D /\A/					
1802	3 Channel 5	U16	10	R/W	setpoint		Х		
•••									
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1899	100 Channel 5	U16	10	R/W	setpoint		х		
'	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1900	1 Channel 6	U16	10	R/W	setpoint		x		
	Power on			1 ,					
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1901	2 Channel 6	U16	10	D /\A/					
1901	+	010	10	R/W	setpoint		Х		
	Power on				0.0.400.00/				
	setpoint				0.0100.0%				
1077	Control Area		1.0	_ ,	6553.5=last				
1902	3 Channel 6	U16	10	R/W	setpoint		Х		
•••									
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
1999	100 Channel 6	U16	10	R/W	setpoint		х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
2000	1 Channel 7	U16	10	R/W	setpoint		x		
2000	Power on	010	10	11, 00	Scipolit		^		
	setpoint				0.0100.0%				
2004	Control Area	1146	10	D // 4/	6553.5=last				
2001	2 Channel 7	U16	10	R/W	setpoint		Х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
2002	3 Channel 7	U16	10	R/W	setpoint		Х		
:				<u> </u>					



	T	ı	I	ı		1	1	 	
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
2099	100 Channel 7	U16	10	R/W	setpoint		Х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
2100	1 Channel 8	U16	10	R/W	setpoint		х		
	Power on								
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
2101	2 Channel 8	U16	10	R/W	setpoint		x		
	Power on			,				1 1	
	setpoint				0.0100.0%				
	Control Area				6553.5=last				
2102	3 Channel 8	U16	10	R/W	setpoint		x		
	3 Chamiler 6	010	10	11,700	зесроппс		^	+ +	
	Power on							+ +	
					0.0100.0%				
	setpoint								
2400	Control Area	1116	10	D /\A/	6553.5=last				
2199	100 Channel 8	U16	10	R/W	setpoint		Х	+	
	Setpoint								
	Control Area								
2200	1 Channel 1	U16	10	R/W	0.0100.0%	Х		\perp	
	Setpoint								
	Control Area								
2201	2 Channel 1	U16	10	R/W	0.0100.0%	Х			
	Setpoint								
	Control Area								
2202	3 Channel 1	U16	10	R/W	0.0100.0%	Х			
	Setpoint								
	Control Area								
2299	100 Channel 1	U16	10	R/W	0.0100.0%	x			
	Setpoint								
	Control Area								
2300	1 Channel 2	U16	10	R/W	0.0100.0%	х			
-	Setpoint	-		1				† †	
	Control Area								
2301	2 Channel 2	U16	10	R/W	0.0100.0%	x			
	Setpoint	010		,	3.0100.070			+ +	
	Control Area								
2302	3 Channel 2	U16	10	R/W	0.0100.0%	x			
	3 Chainel 2	010	10	11/ 11/	0.0100.070	^		+ +	
•••	Cotnoint							+ +	
	Setpoint								
2200	Control Area	1116	10	D /\4/	0.0.100.00/				
2399	100 Channel 2	U16	10	R/W	0.0100.0%	Х			



	Setpoint								
	Control Area								
2400	1 Channel 3	U16	10	R/W	0.0100.0%	х			
	Setpoint								
	Control Area								
2401	2 Channel 3	U16	10	R/W	0.0100.0%	x			
	Setpoint								
	Control Area								
2402	3 Channel 3	U16	10	R/W	0.0100.0%	x			
	3 charmer 3	010	10	11,700	0.0100.070	 ^			
•••	Setpoint								
	Control Area								
2499	100 Channel 3	U16	10	R/W	0.0100.0%				
2499		010	10	K/VV	0.0100.0%	Х			
	Setpoint								
	Control Area				0.0.100.00/				
2500	1 Channel 4	U16	10	R/W	0.0100.0%	Х			
	Setpoint								
	Control Area								
2501	2 Channel 4	U16	10	R/W	0.0100.0%	Х			
	Setpoint								
	Control Area								
2502	3 Channel 4	U16	10	R/W	0.0100.0%	Х			
	Setpoint								
	Control Area								
2599	100 Channel 4	U16	10	R/W	0.0100.0%	х			
	Setpoint								
	Control Area								
2600	1 Channel 5	U16	10	R/W	0.0100.0%	х			
	Setpoint								
	Control Area								
2601	2 Channel 5	U16	10	R/W	0.0100.0%	x			
	Setpoint								
	Control Area								
2602	3 Channel 5	U16	10	R/W	0.0100.0%	x			
	3 charmers	010	10	11,700	0.0100.070	 ^			
•••	Setpoint								
	Control Area								
2600		1116	10	D /\A/	0.0.100.09/				
2699	100 Channel 5	U16	10	R/W	0.0100.0%	Х	1		
	Setpoint								
2700	Control Area		10	D // · ·	0.0.400.004	1.			
2700	1 Channel 6	U16	10	R/W	0.0100.0%	Х	1		
	Setpoint								
	Control Area								
2701	2 Channel 6	U16	10	R/W	0.0100.0%	Х	1		
	Setpoint								
	Control Area								
2702	3 Channel 6	U16	10	R/W	0.0100.0%	Х			



	1		1			1	1	ı	1	1
•••										
	Setpoint									
	Control Area									
2799	100 Channel 6	U16	10	R/W	0.0100.0%	x				
	Setpoint									
	Control Area									
2800	1 Channel 7	U16	10	R/W	0.0100.0%	x				
2000	Setpoint	010	10	117 00	0.0100.070					
	•									
2004	Control Area		10	5 /14/	0.0.100.00/					
2801	2 Channel 7	U16	10	R/W	0.0100.0%	Х				
	Setpoint									
	Control Area									
2802	3 Channel 7	U16	10	R/W	0.0100.0%	Х				
-	Setpoint									
	Control Area									
2899	100 Channel 7	U16	10	R/W	0.0100.0%	x				
	Setpoint			,						
	Control Area									
2900	1 Channel 8	U16	10	R/W	0.0100.0%	x				
2300	Setpoint	010	10	11/ 00	0.0100.070	 ^				
	· ·									
2004	Control Area	114.6	10	D // 4/	0.0.400.00/					
2901	2 Channel 8	U16	10	R/W	0.0100.0%	Х				
	Setpoint									
	Control Area									
2902	3 Channel 8	U16	10	R/W	0.0100.0%	Х				
	Setpoint									
	Control Area									
2999	100 Channel 8	U16	10	R/W	0.0100.0%	х				
	Realized									
	Control Area									
3000	1 Channel 1	U16	10	Read	0.0100.0%		х			
	Realized	0 = 0		11000	0.0200.070		<u> </u>			
	Control Area									
3001	2 Channel 1	U16	10	Read	0.0100.0%		V			
3001		010	10	Reau	0.0100.0%		Х			
	Realized									
2000	Control Area		40		0.0.400.004					
3002	3 Channel 1	U16	10	Read	0.0100.0%		Х			
							<u> </u>			
	Realized									
	Control Area									
3099	100 Channel 1	U16	10	Read	0.0100.0%		Х			
	Realized									
	Control Area									
3100	1 Channel 2	U16	10	Read	0.0100.0%		х			
3_00					1 2.2200.070	1		1	l	İ



	1						· · · · · · · · · · · · · · · · · · ·	
	Realized							
	Control Area							
3101	2 Channel 2	U16	10	Read	0.0100.0%	х		
	Realized		-					
	Control Area							
2102		1116	10	Dood	0.0.100.00/			
3102	3 Channel 2	U16	10	Read	0.0100.0%	Х		
•••								
	Realized							
	Control Area							
3199	100 Channel 2	U16	10	Read	0.0100.0%	x		
	Realized							
	Control Area							
3200	1 Channel 3	U16	10	Read	0.0100.0%	x		
3200	†	010	10	Read	0.0100.070	^		
	Realized							
	Control Area							
3201	2 Channel 3	U16	10	Read	0.0100.0%	Х		
	Realized							
	Control Area							
3202	3 Channel 3	U16	10	Read	0.0100.0%	x		
	Realized							
	Control Area							
3299	100 Channel 3	U16	10	Poad	0.0100.0%			
3299	+	010	10	Read	0.0100.0%	Х		
	Realized							
	Control Area							
3300	1 Channel 4	U16	10	Read	0.0100.0%	х		
	Realized							
	Control Area							
3301	2 Channel 4	U16	10	Read	0.0100.0%	x		
	Realized							
	Control Area							
3302	3 Channel 4	U16	10	Read	0.0100.0%	x		
	3 Chamici 4	010	10	Read	0.0100.070	^		
•••	B P I							
	Realized							
	Control Area							
3399	100 Channel 4	U16	10	Read	0.0100.0%	Х		
	Realized							1
	Control Area							
3400	1 Channel 5	U16	10	Read	0.0100.0%	х		
	Realized							
	Control Area							
3401	2 Channel 5	U16	10	Read	0.0100.0%	x		
3-01	+	010	10	neau	0.0100.070	^		+
	Realized							
2402	Control Area			 	0.0.400.007			
3402	3 Channel 5	U16	10	Read	0.0100.0%	Х		
•••								



	Realized							
	Control Area							
3499	100 Channel 5	U16	10	Read	0.0100.0%	х		
	Realized							
	Control Area							
3500	1 Channel 6	U16	10	Read	0.0100.0%	x		
3300	Realized	010	10	ricad	0.0100.070	^		
	Control Area							
3501	2 Channel 6	1116	10	Dood	0.0.100.00/			
3501	+	U16	10	Read	0.0100.0%	X		
	Realized							
	Control Area		1					
3502	3 Channel 6	U16	10	Read	0.0100.0%	Х		
•••								
	Realized							
	Control Area							
3599	0 Channel 7	U16	10	Read	0.0100.0%	Х		
	Realized							
	Control Area							
3600	1 Channel 7	U16	10	Read	0.0100.0%	х		
	Realized							
	Control Area							
3601	2 Channel 7	U16	10	Read	0.0100.0%	x		
	Realized		-					
	Control Area							
3602	3 Channel 7	U16	10	Read	0.0100.0%	x		
	5 charmer 7	010	10	ricad	0.0100.070			
•••	Realized							
	Control Area							
3699	100 Channel 7	U16	10	Bood	0.0100.0%	v		
3099		010	10	Read	0.0100.0%	X		
	Realized							
2700	Control Area	114.6	10	D	0.0.400.00/			
3700	1 Channel 8	U16	10	Read	0.0100.0%	X		
	Realized	1						
	Control Area	1						
3701	2 Channel 8	U16	10	Read	0.0100.0%	Х		
	Realized							
	Control Area							
3702	3 Channel 8	U16	10	Read	0.0100.0%	Х		
	Realized							
	Control Area	1						
3799	100 Channel 8	U16	10	Read	0.0100.0%	х		
	Universal							
	Measurement							
	1 Control							
3800	Area 1	U16	1	Read	065535			х
			L				1	



	T	1				1	1		
	Universal								
	Measurement								
	1 Control								
3801	Area 2	U16	1	Read	065535				х
3001	Universal	010		ricaa	003333				
	Measurement								
	1 Control								
3802	Area 3	U16	1	Read	065535				х
	Universal								
	Measurement								
	1 Control								
2000		1116	1	Dood	0 (5525				
3899	Area 100	U16	1	Read	065535				Х
	Universal								
	Measurement								
	2 Control	1		1					
3900	Area 1	U16	1	Read	065535				х
	Universal								
	Measurement	1		1					
	2 Control	1		1					
3901	Area 2	U16	1	Read	065535				Х
	Universal								
	Measurement								
	2 Control								
3902	Area 3	U16	1	Read	065535				х
	Universal								
	Measurement								
	2 Control	1		1					
3999	Area 100	U16	1	Read	065535				Χ
	Universal	1		1					
	Measurement	1		1					
	3 Control	1		1					
4000	Area 1	U16	1	Read	065535				х
1000	Universal	010		caa	005555				^
		1		1					
	Measurement	1		1					
	3 Control	1		1					
4001	Area 2	U16	1	Read	065535				Χ
	Universal]					
	Measurement								
	3 Control								
4002	Area 3	U16	1	Read	065535				х
	7.11.00.3	010		ricad	005555				^
•••	Hairrey 1	-		 					
	Universal								
	Measurement	1		1					
	3 Control								
4099	Area 100	U16	1	Read	065535				х
	•	•		•				-	



Universal Measurement 4 Control 4100 Area 1 U16 1 Read 0.65535 x		1	1	1	,	1	T T		-
4 Control Area 1		Universal							
Area 1		Measurement							
Area 1		4 Control							
Universal Measurement 4 Control 4101 Area 2 U16 1 Read 0.65535 x	4100	Area 1	U16	1	Read	065535			x
Measurement 4 Control Area 2		•				0.1100000			
4 Control Area 2									
Area 2									
Universal Measurement 4 Control 4102 Area 3 U16 1 Read 065535 x x									
Measurement 4 Control 4102 Area 3	4101		U16	1	Read	065535			Х
4 Control Area 3		Universal							
Area 3		Measurement							
Universal Measurement 4 Control 4199 Area 100 U16 1 Read 065535 x Universal Measurement 5 Control 4200 Area 1 U16 1 Read 065535 x Universal Measurement 5 Control 4201 Area 2 U16 1 Read 065535 x Universal Measurement 5 Control 4202 Area 3 U16 1 Read 065535 x Universal Measurement 5 Control 4209 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4209 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x		4 Control							
Universal Measurement 4 Control 4199 Area 100 U16 1 Read 065535 x Universal Measurement 5 Control 4200 Area 1 U16 1 Read 065535 x Universal Measurement 5 Control 4201 Area 2 U16 1 Read 065535 x Universal Measurement 5 Control 4202 Area 3 U16 1 Read 065535 x Universal Measurement 5 Control 4209 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4209 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x	4102	Area 3	U16	1	Read	065535			х
Universal Measurement 4 Control 4199 Area 100 U16 1 Read 065535 x Universal Measurement 5 Control 4200 Area 1 U16 1 Read 065535 x Universal Measurement 5 Control 4201 Area 2 U16 1 Read 065535 x Universal Measurement 5 Control 4202 Area 3 U16 1 Read 065535 x Universal Measurement 5 Control 4209 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4209 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x									
Measurement 4 Control Area 100	•••	Universal							
4 Control Area 100									
Area 100									
Universal Measurement 5 Control 4200 Area 1 U16 1 Read 065535 x									
Measurement 5 Control 4200 Area 1 U16 1 Read 065535 x x	4199		U16	1	Read	065535			Х
S Control Area 1		Universal							
Area 1		Measurement							
Universal Measurement 5 Control 4201 Area 2 U16 1 Read 065535 x		5 Control							
Universal Measurement 5 Control 4201 Area 2 U16 1 Read 065535 x	4200	Area 1	U16	1	Read	065535			x
Measurement 5 Control 4201 Area 2 U16 1 Read 065535 x x		+							
S Control Area 2									
4201 Area 2 U16 1 Read 065535 x Universal Measurement 5 Control 4299 Area 100 U16 1 Read 065535 x 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control Measurement 6 Control 4065535 X									
Universal Measurement 5 Control 4202 Area 3 U16 1 Read 065535 x x	1201		1116	1	Dood	0 (5525			
Measurement 5 Control Read 065535 x 4202 Area 3 U16 1 Read 065535 x Universal Measurement 5 Control Read 065535 x 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control Read 065535 x Universal Measurement 6 Control Measurement 6 Control Measurement 6 Control Measurement 6 Control	4201	+	016	1	Read	005535			X
S Control									
4202 Area 3 U16 1 Read 065535 x Universal Measurement 5 Control Read 065535 x 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control Read 065535 x Universal Measurement 6 Control Measurement 6 Control Measurement 6 Control Measurement 6 Control									
Universal Measurement 5 Control 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control		5 Control							
Universal Measurement 5 Control 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control	4202	Area 3	U16	1	Read	065535			х
Measurement 5 Control 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement Measurement 6 Control 7 Control<									
Measurement 5 Control 4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535 x Universal Measurement Measurement 6 Control 7 Control<		Universal							
S Control									
4299 Area 100 U16 1 Read 065535 x Universal Measurement 6 Control Read 065535 x Universal Measurement 6 Control Read 065535 x									
Universal Measurement 6 Control 4300 Area 1 U16 1 Read 065535	4200		1116	1	Poad	0 65525			V
Measurement	4233		010	1	neau	003333			X
4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control Control									
4300 Area 1 U16 1 Read 065535 x Universal Measurement 6 Control Measurement 6 Control 065535									
Universal Measurement 6 Control									
Measurement 6 Control	4300	Area 1	U16	1	Read	065535			Х
6 Control		Universal							
6 Control		Measurement							
143U1 AIEd Z U1D 1 KEdÜ UD3333 X	4301	Area 2	U16	1	Read	065535			х
Universal Read 005555	.001		010	_		20000		+ +	
Measurement									
6 Control									
4302 Area 3 U16 1 Read 065535	4302	Area 3	U16	1	Read	065535			Х
1000 0000000	•••								



			•					
	Universal							
	Measurement							
	6 Control							
4399	Area 100	U16	1	Read	065535			Х
	Universal							
	Measurement							
	7 Control							
4400	Area 1	U16	1	Read	065535			х
1100	Universal	010	_	ricad	003303			
	Measurement							
	7 Control							
4401	Area 2	U16	1	Read	065535			V
4401	Universal	010	1	Neau	003333			Х
	Measurement							
	7 Control							
4402	Area 3	U16	1	Read	065535			Х
	Universal							
	Measurement							
	7 Control							
4499	Area 100	U16	1	Read	065535			Х
	Universal							
	Measurement							
	8 Control							
4500	Area 1	U16	1	Read	065535			Х
	Universal							
	Measurement							
	8 Control							
4501	Area 2	U16	1	Read	065535			х
	Universal							
	Measurement							
	8 Control							
4502	Area 3	U16	1	Read	065535			х
	711003	010	-	ricad	003333			
•••	Universal	 				+		
	Measurement							
4599	8 Control	1116	1	Bood	0 65525			
4599	Area 100	U16	1	Read	065535			Х
	Universal							
	Measurement	1						
4600	9 Control			,	0.65535			
4600	Area 1	U16	1	Read	065535			Х
	Universal							
	Measurement							
	9 Control							
4601	Area 2	U16	1	Read	065535			Х



	1	ı	T		,	1	I	1	l
	Universal								
	Measurement								
	9 Control								
4602	Area 3	U16	1	Read	065535				Х
	Universal								
	Measurement								
	9 Control								
4699	Area 100	U16	1	Read	065535				Х
	Universal								
	Measurement								
	10 Control								
4700	Area 1	U16	1	Read	065535				х
	Universal								
	Measurement								
	10 Control								
4701	Area 2	U16	1	Read	065535				х
	Universal								
	Measurement								
	10 Control								
4702	Area 3	U16	1	Read	065535				х
			_						
	Universal								
	Measurement								
	10 Control								
4799	Area 100	U16	1	Read	065535				x
1733	711 CG 200	010	_	ricad	003333				
	Setpoint in								
	micromole				0.06553.5				
	Control Area				μmol/s/m² or				
5000	1 Channel 1	U16	10	R/W	μmol/s			x	
3000	Setpoint in	010	10	11,700	μιτιοίγο			^	
	micromole				0.06553.5				
	Control Area				μmol/s/m² or				
5001	2 Channel 1	U16	10	R/W	μmol/s			V	
3001	Setpoint in	010	10	N/ VV	μιτισιγί			Х	
	micromole				0.0 6552.5				
					0.06553.5				
5002	Control Area	1116	10	D /\A/	μmol/s/m² or				
5002	3 Channel 1	U16	10	R/W	μmol/s			Х	
	Cotosisti								
	Setpoint in				0.0 (553.5				
	micromole				0.06553.5				
5000	Control Area		10	D // · · ·	μmol/s/m² or				
5099	100 Channel 1	U16	10	R/W	μmol/s			Х	
	Setpoint in								
	micromole				0.06553.5				
	Control Area				μmol/s/m² or				
5100	1 Channel 2	U16	10	R/W	μmol/s			Х	



		1	1	1		ı		
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5101	2 Channel 2	U16	10	R/W	μmol/s		x	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5102	3 Channel 2	U16	10	R/W	μmol/s		x	
	3 Charmer 2	010	10	IN/ VV	μποι/3		 	
•••	Cotmoint in						+ +	
	Setpoint in				0.0 (552.5			
	micromole				0.06553.5			
	Control Area			- 6	μmol/s/m² or			
5199	100 Channel 2	U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5200	1 Channel 3	U16	10	R/W	μmol/s		х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5201	2 Channel 3	U16	10	R/W	μmol/s		x	
	Setpoint in			.,	p			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5202	3 Channel 3	U16	10	R/W	μmol/s		l x	
	3 Chainlei 3	010	10	11/ VV	μποι/3		 	
	Cataalatia							
	Setpoint in				0.0.6550.5			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5299	100 Channel 3	U16	10	R/W	μmol/s		X	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5300	1 Channel 4	U16	10	R/W	μmol/s		х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5301	2 Channel 4	U16	10	R/W	μmol/s		x	
	Setpoint in		-	, , , ,	r 7 -			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5302	3 Channel 4	1116	10	R/W				
	3 Chaillel 4	U16	10	r/ vv	μmol/s		X	
•••	Catastat							
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5399	100 Channel 4	U16	10	R/W	μmol/s		Х	



					'			
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5400	1 Channel 5	U16	10	R/W	μmol/s		х	
	Setpoint in			1.,	p			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
F 4 O 1	2 Channel 5	1116	10	D /\A/				
5401		U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5402	3 Channel 5	U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5499	100 Channel 5	U16	10	R/W	μmol/s		х	
	Setpoint in			<u> </u>				
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5500	1 Channel 6	U16	10	R/W	μmol/s		х	
3300	Setpoint in	010	10	11,700	μποησ			
	micromole				0.06553.5			
5504	Control Area		4.0	5 /14/	μmol/s/m² or			
5501	2 Channel 6	U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5502	3 Channel 6	U16	10	R/W	μmol/s		Χ	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5599	100 Channel 6	U16	10	R/W	μmol/s		х	
	Setpoint in			<u> </u>				
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5600	1 Channel 7	U16	10	R/W	μmol/s		х	
3000	Setpoint in	010	10	11,700	діпоі/ з		^	
	micromole				0.06553.5			
F.C.04	Control Area	1146	10	D ///	μmol/s/m² or			
5601	2 Channel 7	U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5602	3 Channel 7	U16	10	R/W	μmol/s		Х	



		T	1		1	, ,	 1	ı
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5699	100 Channel 7	U16	10	R/W	μmol/s		х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5700	1 Channel 8	U16	10	R/W	μmol/s		х	
3700	Setpoint in	010	10	11/ 00	μποιγσ		^	
	micromole				0.06553.5			
	Control Area							
F701		1116	10	D /\A/	μmol/s/m² or			
5701	2 Channel 8	U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5702	3 Channel 8	U16	10	R/W	μmol/s		Х	
	Setpoint in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5799	100 Channel 8	U16	10	R/W	μmol/s		х	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5800	1 Channel 1	U16	10	Read	μmol/s		х	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5801	2 Channel 1	U16	10	Read	μmol/s		х	
	Realized in				F /-			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5802	3 Channel 1	U16	10	Read			V	
	3 Chainlei 1	010	10	Neau	μποιγί		Х	
	Realized in							
					0.0 6552.5			
	micromole				0.06553.5			
F000	Control Area	1146	10	D	μmol/s/m² or			
5899	100 Channel 1	U16	10	Read	μmol/s		Х	
	Realized in				0.0 65-0-			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5900	1 Channel 2	U16	10	Read	μmol/s		Х	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5901	2 Channel 2	U16	10	Read	μmol/s		х	<u> </u>



	T	1	ī			1		
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5902	3 Channel 2	U16	10	Read	μmol/s		x	
					•			
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
5999	100 Channel 2	U16	10	Read	μmol/s		x	
3333	Realized in	010	10	Neau	μιτισιγία		^	
	micromole				0.0 6552.5			
					0.06553.5			
6000	Control Area		40		μmol/s/m² or			
6000	1 Channel 3	U16	10	Read	μmol/s		X	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6001	2 Channel 3	U16	10	Read	μmol/s		Х	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6002	3 Channel 3	U16	10	Read	μmol/s		x	
					•			
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6099	100 Channel 3	U16	10	Read	μmol/s		l x	
0033	Realized in	010	10	ricad	μποησ		^	
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6100		1116	10	Read	•			
6100	1 Channel 4	U16	10	Reau	μmol/s		X	
	Realized in				0.0 6550.5			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6101	2 Channel 4	U16	10	Read	μmol/s		Х	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6102	3 Channel 4	U16	10	Read	μmol/s		х	
	Realized in							
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6199	100 Channel 4	U16	10	Read	μmol/s		x	
	Realized in				F			
	micromole				0.06553.5			
	Control Area				μmol/s/m² or			
6200		1116	10	Bood.	•			
6200	1 Channel 5	U16	10	Read	μmol/s		X	



	T		1	1		 1	_
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6201	2 Channel 5	U16	10	Read	μmol/s	x	
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6202	3 Channel 5	U16	10	Read	μmol/s	x	
	3 Chainlei 3	010	10	Neau	μιτιοί/3	^	
	Realized in						
					0.0 6552.5		
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6299	100 Channel 5	U16	10	Read	μmol/s	Х	
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6300	1 Channel 6	U16	10	Read	μmol/s	 х	
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6301	2 Channel 6	U16	10	Read	μmol/s	x	
	Realized in				F		
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6302	3 Channel 6	U16	10	Read	μmol/s		
	3 Chaillel 0	010	10	neau	μιτισι/ δ	X	
•••	Daalias dire						
	Realized in				0.0 6553.5		
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6399	100 Channel 7	U16	10	Read	μmol/s	Х	
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6400	1 Channel 7	U16	10	Read	μmol/s	 х	
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6401	2 Channel 7	U16	10	Read	μmol/s	x	
2.52	Realized in				F		
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6402		1116	10	Dood	•		
6402	3 Channel 7	U16	10	Read	μmol/s	X	
	D 1: 1:						
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6499	100 Channel 7	U16	10	Read	μmol/s	Х	



	Death 11	1	1				
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6500	1 Channel 8	U16	10	Read	μmol/s	х	
	Realized in						
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6501	2 Channel 8	U16	10	Read	μmol/s	l x	
	Realized in				,		
	micromole				0.06553.5		
	Control Area				μmol/s/m² or		
6502	3 Channel 8	U16	10	Read	μmol/s	x	
	3 Chamiler 6	010	10	ricau	μποησ	^	
•••	Realized in					+ +	
					0.0 (55.2.5		
	micromole				0.06553.5		
	Control Area		1	l	μmol/s/m² or		
6599	100 Channel 8	U16	10	Read	μmol/s	Х	
	Verification				0.06553.5		
	Control Area				μmol/s/m² or		
6600	1 Channel 1	U16	10	R/W	μmol/s	х	
	Verification				0.06553.5		
	Control Area				μmol/s/m² or		
6601	2 Channel 1	U16	10	R/W	μmol/s	x	
	Verification				0.06553.5		
	Control Area				μmol/s/m² or		
6602	3 Channel 1	U16	10	R/W	μmol/s	x	
				,	F / -		
	Verification				0.06553.5		
	Control Area				μmol/s/m² or		
6699	100 Channel 1	U16	10	R/W	μmol/s		
0033	Verification	010	10	11,7 00	0.06553.5	1 1	
6700	Control Area	114.6	10	D // /	μmol/s/m² or		
6700	1 Channel 2	U16	10	R/W	μmol/s	X	
	Verification				0.06553.5		
	Control Area				μmol/s/m² or		
6701	2 Channel 2	U16	10	R/W	μmol/s	Х	
	Verification				0.06553.5		
	Control Area				μmol/s/m² or		
6702	3 Channel 2	U16	10	R/W	μmol/s	x	
	Verification				0.06553.5		
	Control Area		1		μmol/s/m² or		
6799	100 Channel 2	U16	10	R/W	μmol/s	l x	
	Verification			1.,	0.06553.5	1 1 1	
	Control Area	1			μmol/s/m² or		
6800	1 Channel 3	U16	10	R/W	μmol/s		
0000	1 Chaillei 3	0.10	10	IN/ VV	μιτισι/ δ	X	



	1	l		I	T	1	T T	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
6801	2 Channel 3	U16	10	R/W	μmol/s		Х	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
6802	3 Channel 3	U16	10	R/W	μmol/s		x	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
6899	100 Channel 3	U16	10	R/W	μmol/s		l x	
	Verification			.,	0.06553.5			
	Control Area				μmol/s/m² or			
6900	1 Channel 4	U16	10	R/W	μmol/s		x	
0300	Verification	010	10	11/ 00	0.06553.5		 ^ 	
	Control Area							
C001		1116	10	D /\A/	μmol/s/m² or			
6901	2 Channel 4	U16	10	R/W	μmol/s		X	
	Verification				0.06553.5			
	Control Area			- 6	μmol/s/m² or			
6902	3 Channel 4	U16	10	R/W	μmol/s		Х	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
6999	100 Channel 4	U16	10	R/W	μmol/s		x	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7000	1 Channel 5	U16	10	R/W	μmol/s		x	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7001	2 Channel 5	U16	10	R/W	μmol/s		x	
,,,,,	Verification	0.10		1.,	0.06553.5			
	Control Area				μmol/s/m² or			
7002	3 Channel 5	U16	10	R/W	μmol/s		l x	
	3 Chamiler 3	010	10	11/ 00	μποι/3		 ^ 	
•••	Verification				0.06553.5		+ + +	
7000	Control Area	114.6	40	D /\4/	μmol/s/m² or			
7099	100 Channel 5	U16	10	R/W	μmol/s		X	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7100	1 Channel 6	U16	10	R/W	μmol/s		х	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7101	2 Channel 6	U16	10	R/W	μmol/s		х	
	Verification				0.06553.5		1 1 7	· <u> </u>
	Control Area				μmol/s/m² or			
7102	3 Channel 6	U16	10	R/W	μmol/s		x	



	T .	1	T	1		1		
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7199	100 Channel 6	U16	10	R/W	μmol/s		Х	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7200	1 Channel 7	U16	10	R/W	μmol/s		x	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7201	2 Channel 7	U16	10	R/W	μmol/s		x	
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7202	3 Channel 7	U16	10	R/W	μmol/s		x	
			-	,	F / -			
	Verification				0.06553.5			
	Control Area				μmol/s/m² or			
7299	100 Channel 7	U16	10	R/W	μmol/s		l x	
7233	Verification	010	10	1,, 11	0.06553.5		 	
	Control Area				μmol/s/m² or			
7300	1 Channel 8	U16	10	R/W	μmol/s		l x	
7300	Verification	010	10	11, 11	0.06553.5		 ^	
	Control Area				μmol/s/m² or			
7301	2 Channel 8	U16	10	R/W	μmol/s		l x	
7301	Verification	010	10	11/ VV	0.06553.5		 ^	
	Control Area							
7302		1116	10	D /\A/	μmol/s/m² or			
7302	3 Channel 8	U16	10	R/W	μmol/s		X	
•••	Mariffer at the co				0.0.6552.5			
	Verification				0.06553.5			
7200	Control Area		10	5 /14/	μmol/s/m² or			
7399	100 Channel 8	U16	10	R/W	μmol/s		X	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7400	1 Channel 1	U16	10	Read	μmol/s		X	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7401	2 Channel 1	U16	10	Read	μmol/s		X	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7402	3 Channel 1	U16	10	Read	μmol/s		x	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7499	100 Channel 1	U16	10	Read	μmol/s		x	



	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7500	1 Channel 2	U16	10	Read	μmol/s		х	
	Verification				,			
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7501	2 Channel 2	U16	10	Read	μmol/s		х	
7501	Verification	010	10	ricad	μιτιοίγο		^	
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7502		1116	10	Dood	•			
7502	3 Channel 2	U16	10	Read	μmol/s		Х	
•••								
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7599	100 Channel 2	U16	10	Read	μmol/s		Х	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7600	1 Channel 3	U16	10	Read	μmol/s		Х	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7601	2 Channel 3	U16	10	Read	μmol/s		х	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7602	3 Channel 3	U16	10	Read	μmol/s		х	
	3 Chamier 3	010	10	ricad	pinoly s			
•••	Verification							
	minimum				0.06553.5			
7000	Control Area	1116	10	Dood	μmol/s/m² or			
7699	100 Channel 3	U16	10	Read	μmol/s		Х	
	Verification				0.0.6550.5			
	minimum				0.06553.5			
	Control Area		1.0		μmol/s/m² or			
7700	1 Channel 4	U16	10	Read	μmol/s		Х	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7701	2 Channel 4	U16	10	Read	μmol/s		Х	
	Verification							
	minimum				0.06553.5			
	Control Area				μmol/s/m² or			
7702	3 Channel 4	U16	10	Read	μmol/s		х	
	-				. ,			
	1	1	1	1	l	i l	1	1



x
x
x
x
x
x
x
x
x
х
х
x
х
1
x
^
Х
Х
Х
Х
х



	Verification						
	minimum				0.06553.5		
	Control Area				μmol/s/m² or		
8002	3 Channel 7	U16	10	Read	μmol/s	x	
					,		
	Verification						
	minimum				0.06553.5		
	Control Area				μmol/s/m² or		
8099	100 Channel 7	U16	10	Read	μmol/s	l x	
0033	Verification	010	10	ricad	μποιγσ	 	
	minimum				0.06553.5		
	Control Area				μmol/s/m² or		
8100		1116	10	Read	•		
9100	1 Channel 8	U16	10	Reau	μmol/s	X	
	Verification				0.0 6552.5		
	minimum				0.06553.5		
0.4.0.4	Control Area				μmol/s/m² or		
8101	2 Channel 8	U16	10	Read	μmol/s	Х	
	Verification						
	minimum				0.06553.5		
	Control Area				μmol/s/m² or		
8102	3 Channel 8	U16	10	Read	μmol/s	x	
•••							
	Verification						
	minimum				0.06553.5		
	Control Area				μmol/s/m² or		
8199	100 Channel 8	U16	10	Read	μmol/s	x	
	Verification						
	maximum				0.06553.5		
	Control Area				μmol/s/m² or		
8200	1 Channel 1	U16	10	Read	μmol/s	l x	
	Verification						
	maximum				0.06553.5		
	Control Area				μmol/s/m² or		
8201	2 Channel 1	U16	10	Read	μmol/s	x	
	Verification				F3	"	
	maximum				0.06553.5		
	Control Area				μmol/s/m² or		
8202	3 Channel 1	U16	10	Read	μmol/s	x	
	J Chamilel 1	010	10	neau	μιτιοι/ 3	^	
•••	Verification						
	maximum				0.06553.5		
					μmol/s/m² or		
9200	Control Area	1116	10	Dood	•		
8299	100 Channel 1	U16	10	Read	μmol/s	X	
	Verification				0.0 65-0-		
	maximum				0.06553.5		
	Control Area		1		μmol/s/m² or		
8300	1 Channel 2	U16	10	Read	μmol/s	X	



				1			
	Verification						
	maximum				0.06553.5		
	Control Area				μmol/s/m² or		
8301	2 Channel 2	U16	10	Read	μmol/s	x	
	Verification	0 = 0			μσ.γσ	- '	
	maximum				0.06553.5		
	Control Area		1		μmol/s/m² or		
8302	3 Channel 2	U16	10	Read	μmol/s	Х	
	Verification						
	maximum				0.06553.5		
	Control Area				μmol/s/m² or		
8399	100 Channel 2	U16	10	Read	μmol/s	x	
	Verification				, ,		
	maximum				0.06553.5		
	Control Area	1			μmol/s/m² or		
0400	1 Channel 3	1116	10	Read	•		
8400		U16	10	кеаа	μmol/s	Х	
	Verification						
	maximum	1			0.06553.5		
	Control Area				μmol/s/m² or		
8401	2 Channel 3	U16	10	Read	μmol/s	Х	
	Verification]					
	maximum				0.06553.5		
	Control Area	1			μmol/s/m² or		
8402	3 Channel 3	U16	10	Read	μmol/s	x	
	3 3				F		
	Verification	1					
					0.0 6552.5		
	maximum				0.06553.5		
0.45	Control Area				μmol/s/m² or		
8499	100 Channel 3	U16	10	Read	μmol/s	Х	
	Verification	1					
	maximum	1			0.06553.5		
	Control Area	1			μmol/s/m² or		
8500	1 Channel 4	U16	10	Read	μmol/s	x	
	Verification						
	maximum	1			0.06553.5		
	Control Area	1			μmol/s/m² or		
8501	2 Channel 4	U16	10	Read	μmol/s		
9301		010	10	neau	μιτισιγο	X	
	Verification	1			0.0.6550.5		
	maximum				0.06553.5		
	Control Area				μmol/s/m² or		
8502	3 Channel 4	U16	10	Read	μmol/s	Х	
	Verification						
	maximum	1			0.06553.5		
	Control Area	1			μmol/s/m² or		
8599	100 Channel 4	U16	10	Read	μmol/s	x	
0333	100 Chaillei 4	010	1 10	neau	μιτισι/ 3	^	



	Verification							
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8600	1 Channel 5	U16	10	Read	μmol/s		х	
	Verification							
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8601	2 Channel 5	U16	10	Read	μmol/s		х	
8001	Verification	010	10	Neau	μιτιοί/3		^	
	maximum				0.06553.5			
0.000	Control Area		10		μmol/s/m² or			
8602	3 Channel 5	U16	10	Read	μmol/s		Х	
•••								
	Verification							
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8699	100 Channel 5	U16	10	Read	μmol/s		х	
	Verification							
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8700	1 Channel 6	U16	10	Read	μmol/s		х	
	Verification				p			
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8701	2 Channel 6	U16	10	Read	μmol/s		V	
8701	Verification	010	10	Neau	μποι/3		Х	
					0.0 (552.5			
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8702	3 Channel 6	U16	10	Read	μmol/s		Х	
	Verification							
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8799	100 Channel 6	U16	10	Read	μmol/s		х	<u> </u>
-	Verification							
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8800	1 Channel 7	U16	10	Read	μmol/s		х	
	Verification				F		<u> </u>	
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8801	2 Channel 7	1116	10	Pood	•			
0001		U16	10	Read	μmol/s	+	Х	
	Verification				0.0 6550.5			
	maximum				0.06553.5			
	Control Area				μmol/s/m² or			
8802	3 Channel 7	U16	10	Read	μmol/s		Х	



8999	Verification maximum Control Area 100 Channel 8	U16	10	Read	0.06553.5 μmol/s/m² or μmol/s		x	
8902	Verification maximum Control Area 3 Channel 8	U16	10	Read	0.06553.5 μmol/s/m² or μmol/s		x	
8901	Verification maximum Control Area 2 Channel 8	U16	10	Read	0.06553.5 μmol/s/m² or μmol/s		x	
8899 8900	Control Area 100 Channel 7 Verification maximum Control Area 1 Channel 8	U16	10	Read Read	μmol/s/m² or μmol/s 0.06553.5 μmol/s/m² or μmol/s		x	
	Verification maximum				0.06553.5			