

DATA SHEET

ADQUIO PRO

Programmable controller, actuator and datalogger



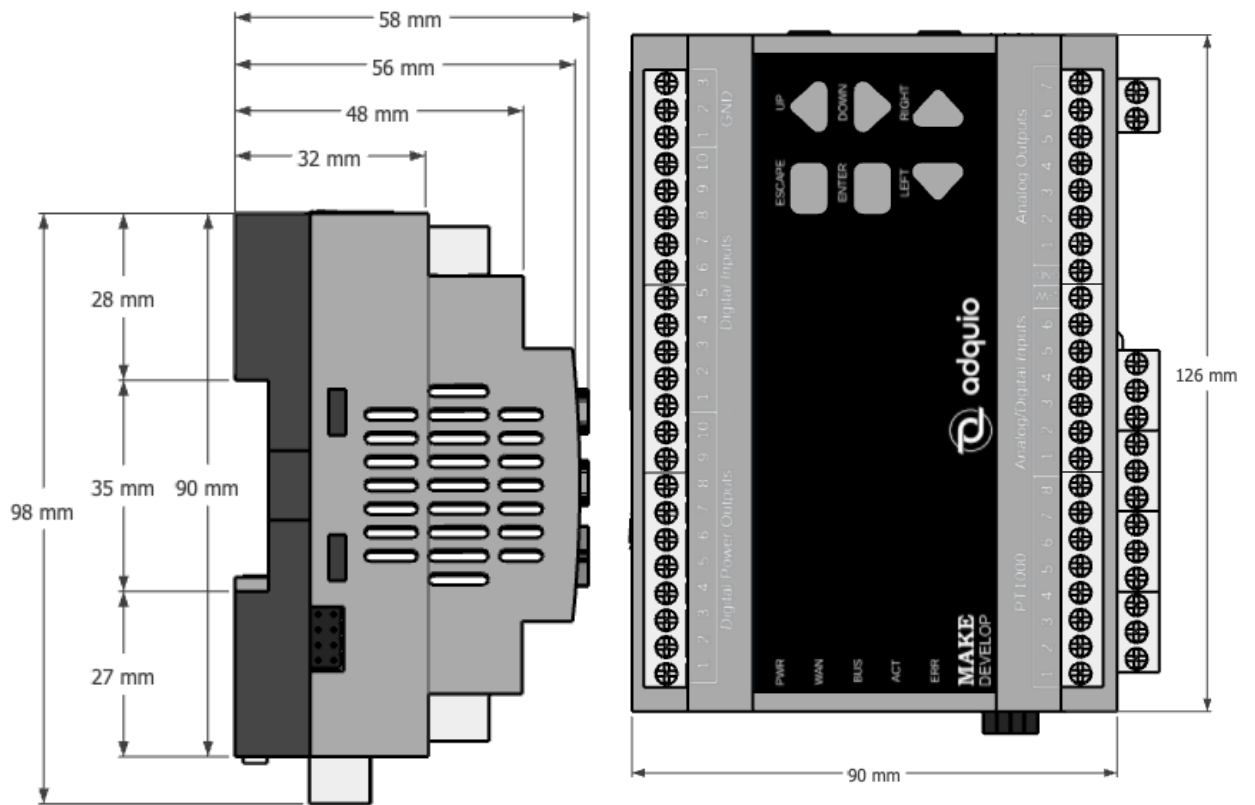
1 Ordering information

Reference	Description	Life cycle *
ADQ-4MBBN-4ETH / 4PT / 10/10/7/7	Adquio Pro, Java Script programmable controller, OLED display, keyboard, 1 WAN, 3 LAN, 4 485, 10 DO, 10 DI, 7 AO, 7AI, 4 PT1000, 1 USB, 2 expansion ports	Active



* For planning and commissioning of new installations use modules in Active state only

2 Dimensions



3 Technical data

Parameter		Value
Process voltage		
	Connections	Removable terminal block 5.08 Pitch 2 contacts
	Nominal value	24 VDC
	Maximum supported	28 VDC
	Protection against voltage reversal	Yes
	Nominal protection fuse up to	3 A
Consumption		

	From a 24V power supply	140-200 mA
	Maximum consumption	250 mA + Consumption of loads in digital outputs
	Maximum consumption peak at start-up	400 mA
Integrated UPS		
	Operating time without power before starting shutdown	3 s


CAUTION!

Exceeding the maximum power supply voltage for the process or supply voltages could cause irrecoverable damage to the system. The system could be destroyed.


CAUTION!!

Improper connection cables cause overheating at the terminals. Acquio pro, they can be destroyed if the wrong cable type, cable size or cable temperature rating is used.

3.1 Technical data of the analog inputs

Parameter	Value
Number of inputs	7
Connections	Removable terminal block 5.08 Pitch 7 contacts
Range	0-10 V
Resolution	12 bits
Input signal indicator	No
Overvoltage protection	Yes

3.2 Technical data of the analog inputs, (if they are used as digital)

Parameter		Value
Number of inputs		7
Connections		Removable terminal block 5.08 Pitch 7 contacts
Input		24 VDC
	signalSignal for 0	from 0 to 5V
	Signal for 1	> 5.1V> = 24V
Input signal indicator		Yes , on OLED screen
Overvoltage protection		Yes

3.3 Technical data of the analog outputs

Parameter		Value
Number of outputs		7
Connections		Removable terminal block 5.08 Pitch 7 contacts
Maximum load		10 mA
Resolution		12 Bits
Range		0-10V
Output signal indicator		No
Protection of Overvoltage		Yes

3.4 Technical data of the PT1000 inputs

Parameter		Value
Number of inputs		4
Connections		Removable terminal block 5.08 Pitch 8 contacts
Resolution		15 Bits

Adjustable by software	Yes
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3.5 Technical data of digital inputs

Parameter	Value
Number of outputs	10
Connections	Removable terminal block 5.08 Pitch 10 contacts
Voltage	24 V
Maximum load	2 A
Input signal indicator	Yes on OLED panel
Overvoltage protection	Yes

3.6 Technical data of digital inputs

Parameter	Value
Number of inputs	10
Connections	Removable terminal block 5.08 Pitch 10 contacts
Activation voltage	3-24 V
Input signal indicator	Yes on OLED panel
Overvoltage protection	Yes

4 System data

4.1 Environmental conditions

Parameter	Value
Temperature	
Operation	0 ° C ... +60 ° C (horizontal mounting on DIN rail)

	Storage	-40 ° C ... + 70 ° C
	Transport	-40 ° C ... + 70 ° C
Humidity		Max. 95% non-condensing
Air pressure		
	Operation	> 800 hPa / <2000 m
	Storage	> 600 hPa / <3500 m
Insulation		IP20

4.2 Mechanical data

Parameter	Value
Mounting	Horizontal
Protection level	IP20
Housing material	ABS UL-94-HB Dark gray
Mounting alternatives	
Rail DIN according to DIN EN 50022	35 mm, depth 7.5 mm or 15 mm
Mounting with screws	Screws with a diameter of 4 mm
Tightening torque	1.2 Nm

4.3 Protocols

Parameter	Value
Modbus	RTU Client TCP Client and server
BACnet	TCP MSTP

4.4 Communications

Parameter		Value
RS485		
	Number of ports	4
	Speed range	1200 bps to 115,200 bps
Ethernet		
	WAN ports	1
	LAN ports	3
	Communication speed	100 Mb / s
USB		
	Number	1
	Technology	2.0
Side expansions		
	Number	2
	Maximum devices per expansion	4
	Total direct expansions	8
Wireless access point		
	Frequency	2 , 4 Ghz
	Active	For installation only if the device does not detect WAN connection.

4.5 Storage

Parameter		Value
MicroSD Card High Endurance		
	Inserted from factory	32Gb

	Supports up to	128Gb
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4.6 Certifications

Parameter	Value
Safety and Health	EN ISO 13849-1: 2015 EN ISO 13849-2: 2012 EN 62061: 2005 + A1: 2013 + A2: 2015 EN 60950 -1: 2006 EN 62311: 2008
EMC	EN 61000-6-4: 2007 + A1: 2011 EN 61000-6-2: 2005 ETSI EN 301 489-1 v2.2.0 ETSI EN 301 489-17 v3.2.0
Radio	ETSI- EN 300 328 v2.1.1 ETSI EN 301 893 v2.1.1
RoHS	EN 50581: 2012

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