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DATA SHEET

MPM 46846-20N00-1S

Produal

Distributed by AKRIBIS



Motorised valve actuator

MPM 46846-20N00-1S



24 V IP54

Modbus

CE UK CA

Product page

These motorised valve actuators are designed for applications that require a short response time for valve control. The actuators have a removable cable (1 m) for supply power and Modbus communication. You can control the valve position using Modbus communication. Always use an adapter between the valve and the actuator.

These actuators have an indicator light for status indication and a display for viewing current stroke, operating mode (open/close), and error codes.

You can install these actuators in any position and they can be protected against unauthorized removal.

Other connection cable lengths are available separately. The available lengths are 2, 3, 5, 10 and 20 m.

You can configure all parameter settings via Modbus RTU.

Technical specifications – Power supply

Power supply
24 Vac (22...26 V 50/60 Hz, <2.6 A) / 24 Vdc (20...28 V, <1.4 W)

Current consumption
AC: 100 mA / DC: 60 mA / stand-by: 10 mA

Technical specifications – Product properties

Appliance class
III

Display
10 x 20 mm LCD display with backllight, multicolour indicator light adjacent to the display

Materials
Polyamide (housing), PC plastic (cover), PVC (cable)

Warranty
2 years

Compliance information
Refer to the EU Declaration of Conformity or the UK Declaration of Conformity for compliance information. You can find the declarations on this product's page at www.produal.com.

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Technical specifications – Inputs

Control input
Modbus RTU (RS-485)

Technical specifications – Outputs

Position feedback signal
Modbus RTU

Technical specifications – Communication

Communication
Modbus RTU

Modbus RTU interface
RS-485

Modbus RTU bus speed
4800 / 9600 / 19200 bit/s

Modbus RTU addresses
1...247

Modbus RTU data bits
8

Modbus RTU parity
none/odd/even

Modbus RTU stop bits
2

Modbus RTU unit load
UL 1/8

Technical specifications – Installation

Mounting
On a valve using a valve adapter

Technical specifications – Wiring

Cable
1 m, 4 x 0,22 m² (PVC)

Technical specifications – Operation

Stroke
2...8.5 mm

Actuation force
100 / 125 / 150 / 200 N

Running time
15 s/mm / 30 s/mm

Technical specifications – Operating and storage conditions

IP protection class
IP54

Medium temperature
0...100 °C

Ambient temperature
0...50 °C

Storage temperature
-20...70 °C

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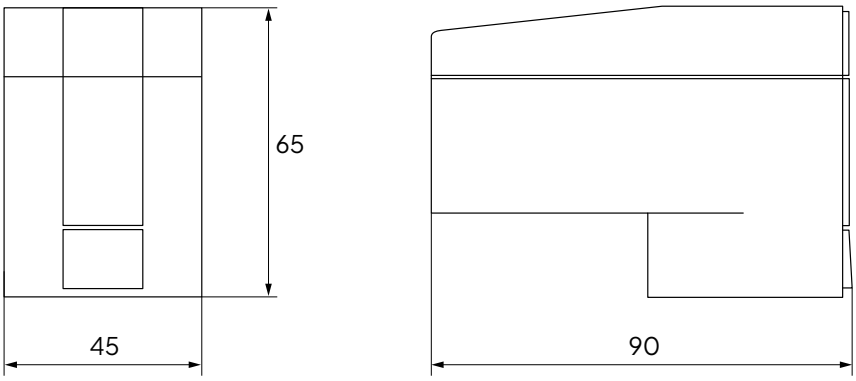
Technical specifications – Dimensions

Product dimensions (w x h x d)
45 x 65 x 90 mm

Product weight
155 g

Dimensions

All dimensions are in millimetres (mm).



Factory settings

Running time
30 mm/s

Actuation force
200 N

Stroke
8.5 mm

Modbus RTU bus speed
19200 bit/s

Modbus RTU address
1

Modbus RTU parity
none

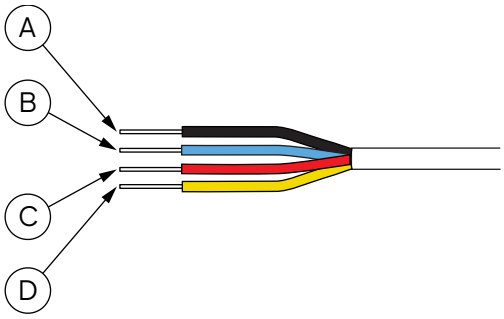
Wiring

Warning: Only connect wires and commission the device if you are qualified for electrical work and familiar with building automation products. Risk of electric shock and damage to the device.

Warning: Always commission the device in a de-energised electricity network. Risk of electric shock.

Caution: Always use a safety isolating transformer that complies with the EN 61558-2-6 standard for AC supply. Use a switching power supply that complies with the EN 61558-2-16 standard for DC supply.

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A	Black, power supply, 24 Vac/dc
B	Blue, power supply, 0 V
C	Red, Modbus RTU, A+
D	Yellow, Modbus RTU, B-

Ordering information

	Product name	Product number	
	MPM 46846-20N00-1S	1210180	motorised valve actuator, Modbus control

Optional products

	Product name	Product number	
	BA-ALL.5.4.01	1220101000	4-wire actuator cable, 1 m
	BA-ALL.5.4.02	1220102000	4-wire actuator cable, 2 m
	BA-ALL.5.4.03	1220103000	4-wire actuator cable, 3 m
	BA-ALL.5.4.05	1220105000	4-wire actuator cable, 5 m
	BA-ALL.5.4.10	1220106000	4-wire actuator cable, 10 m
	BA-ALL.5.4.20	1220108000	4-wire actuator cable, 20 m

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