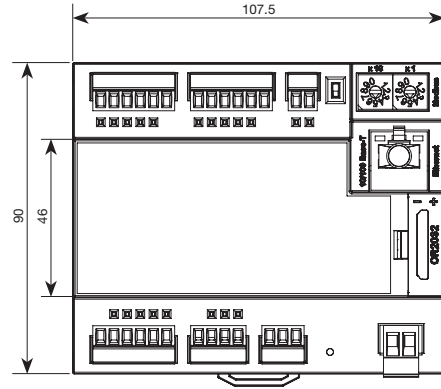
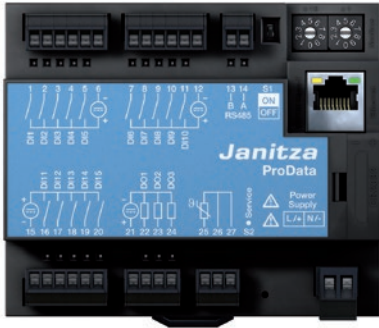


Datalogger ProData 2

Data sheet

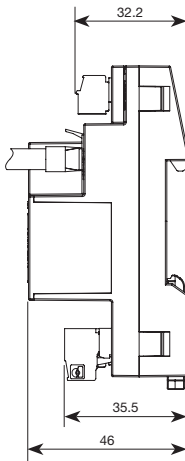
DEVICE VIEWS

Front view



Side view

with Ethernet connector inserted



All dimensions in mm

TECHNICAL DATA

General information	
Net weight (with attached connectors)	approx. 200 g (0.440 lb)
Packaging weight (including accessories)	approx. 440 g (0.97 lb)
Battery	Lithium battery CR2032, 3V (approval i.a.w. UL 1642)
Impact resistance	IK08 according to IEC 62262

Transport and storage	
The following information applies to devices which are transported or stored in the original packaging.	
Free fall	1 m (39.37 in)
Temperature	K55 (-40 °C / -40 °F to +70 °C / 158 °F)
Relative humidity	0 to 90 % RH

Ambient conditions during operation	
The ProData 2 is intended for weather-protected, stationary use. Protection class II in acc. with IEC 60536 (VDE 0106, Part 1).	
Flammability rating of housing	UL 94V-0
Working temperature range	K55 (-40 °C / -40 °F to +55 °C / 131°F)
Relative humidity	5 to 95 % RH (at +25 °C / 77°F without condensation)
Operating altitude	0 .. 2000 m (1.24 mi) above sea level
Degree of pollution	2
Mounting / assembly	Mounting rails 35 mm (in acc. with IEC/EN60999-1, DIN EN 50022)
Mounting position	any
Ventilation	Forced ventilation is not required.
Protection against ingress of solid foreign bodies and water	IP20 in acc. with EN60529

Supply voltage	
Installation overvoltage category	300 V CAT II
Protection of the supply voltage	Fuse: 6 A, type CC (approved in acc. with UL/IEC) or Circuit breaker: 6 A, type C.Char
Nominal range	20 V - 250 V (45..65 Hz) or DC 20 V - 300 V
Power consumption	max. 4 VA / 2 W

Terminal connection capacity (supply voltage)	
Conductors to be connected. Only one conductor can be connected per terminal!	
Single core, multi-core, fine-stranded	0.2 - 4 mm ² , AWG 24 - 12
Cable end sleeve (not insulated)	0.2 - 4 mm ² , AWG 24 - 12
Cable end sleeve (insulated)	0.20 - 2.5 mm ² , AWG 26-14
Tightening torque	0.4 - 0.5 Nm (3.54 - 4.43 lbf in)
Stripping length	7 mm (0.2756 in)

Digital outputs, DIN EN 62053-31:1998 (IEC 62053-31:1998 class B)	
3 digital outputs, semiconductor relays, not short-circuit proof.	
Operating voltage	20 V - 30 V DC (SELV or PELV supply)
Switching voltage	max. 60 V DC
Switching current	max. 50 mAeff DC
Pulse output (energy pulse)	max. 20 Hz
Pulse output	in acc. with DIN EN 62053-31:1998 (IEC 62053-31:1998 class B)

Digital inputs	
15 digital inputs, semiconductor relays, not short-circuit proof.	
Operating voltage	20 V - 30 V DC (SELV or PELV supply)
Input signal present (signal "1")	> 18V DC (typical 4 mA for 24 V)
Input signal not present (signal "0")	< 5V DC
Pulse input (S0), maximum count frequency	25 Hz
Pulse input ¹	in acc. with DIN EN 62053-31:1998 (IEC 62053-31:1998 class B)

Note about digital inputs:

¹ To operate the device in accordance with DIN EN 62053-31 (S0), a resistor with 1.3 kOhm/1 W must be connected parallel to the input.

Temperature measurement input	
1 input (3-wire measurement).	
Update time	1 second
Connectable sensors	PT100, PT1000, KTY83, KTY84
Total burden (sensor + cable)	max. 4 kOhm

Sensor type	Temperature range	Resistor range	Uncertainty in measurement
KTY83	-55 °C (-67 °F) ... +175 °C (347 °F)	500 Ohm ... 2.6 kOhm	± 1.5% rng
KTY84	-40 °C (-40 °F) ... +300 °C (572 °F)	350 Ohm ... 2.6 kOhm	± 1.5% rng
PT100	-99 °C (-146 °F) ... +500 °C (932 °F)	60 Ohm ... 180 Ohm	± 1.5% rng
PT1000	-99 °C (-146 °F) ... +500 °C (932 °F)	600 Ohm ... 1.8 kOhm	± 1.5% rng

Cable length: Digital inputs and outputs, temperature measurement input	
Up to 30 m (32.81 yd)	Unshielded
More than 30 m (32.81 yd)	Shielded

Terminal connection capacity: Digital inputs and outputs, temperature measurement input	
Single core, multi-core, fine-stranded	0.20 - 1.5 mm ² , AWG 24-16
Cable end sleeve (not insulated)	0.20 - 1.5 mm ² , AWG 24-16
Cable end sleeve (insulated)	0.20 - 1.0 mm ² , AWG 24-18
Tightening torque	0.20 - 0.25 Nm (1.77 - 2.21 lbf in)
Stripping length	7 mm (0.2756 in)

Serial interface	
RS485 - Modbus RTU/Slave	9.6 kbps, 19.2 kbps, 38.4 kbps, 57.6 kbps, 115.2 kbps
Stripping length	7 mm

Terminal connection capacity (serial interface)	
Single core, multi-core, fine-stranded	0.20 - 1.5 mm ² , AWG 24-16
Cable end sleeve (not insulated)	0.20 - 1.5 mm ² , AWG 26-16
Cable end sleeve (insulated)	0.20 - 1.0 mm ² , AWG 24-18
Tightening torque	0.20 - 0.25 Nm (1.77 - 2.21 lbf in)
Stripping length	7 mm (0.2756 in)

Ethernet connection	
Connection	RJ45
Functions	Modbus gateway
Protocols	TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping), NTP

Clock	
Precision	+/- 5 ppm in temperature range -40 °C (-40 °F) to 70 °C (158 °F) (corresponding to approx. 3 minutes p.a.)

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