PDR-1000 - Controller

1041980

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The PDR-1000 allows you to visualize, alarm, store, and convert data from analog devices, such as thermocouples, RTDs, digital inputs, and remote Modbus devices. Data collected can then be monitored on a local network or passed through a wireless system to a remote system.

Your advantages

- Alarms are stamped with time of activation and time of acknowledgement
- Intuitive software operation, clear and convenient, thanks to customizable user interface
- Monitors voltage and current, as well as digital and temperature inputs
- Data can be downloaded as a CSV file or transferred to remote storage via FTP
- Modbus/TCP-Client
- Modbus/TCP server

Commercial data

Item number	1041980
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DT02
Product key	DTHBCA
GTIN	4055626927138
Weight per piece (including packing)	398 g
Weight per piece (excluding packing)	376 g
Country of origin	US

Technical data

Product properties

Product type	Controller
Product family	Inline
Type	modular

Display

Diagnostics display	no

System properties

Function

Diagnostics display	no
Redundancy function	no
Safety function	no

Functionality

Programming languages supported	HTML5

System requirements

Runtime system	eCLR
Application interface	OPC

Electrical properties

Transmission medium	Copper
Maximum power dissipation for nominal condition	max. 5 W

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Residual ripple	± 5 %
Max. current consumption	870 mA (370 mA communications power + 500 mA analog voltage supply)
Typical current consumption	210 mA

Real-time clock

Realtime clock	yes
Description realtime clock	integrated (rechargeable battery buffered)

Potentials

Supply voltage	7.5 V DC ±5 %

Potentials

Supply voltage	24 V DC -15 % / +20 %

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)

Supply voltage range	-15 % / +20 % (in accordance with EN 61131-2)
Current draw	max. 8 A DC

Potentials

Supply voltage	24 V DC -15 % / +20 % (in accordance with EN 61131-2)
Current draw	max. 8 A DC

Input data

Digital:

Input name	Digital inputs
Description of the input	EN 61131-2 type 1 NPN/PNP
Number of inputs	8
Connection method	Inline potential distributor
Connection technology	2-, 3-, 4-conductor
Nominal input current at U_{IN}	typ. 3 mA

Output data

Digital:

Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Number of outputs	4
Maximum output current per channel	500 mA

Connection data

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16

Interfaces

Web server	yes

Ethernet 10Base-T/100Base-TX

Bus system	RJ45
Number of interfaces	2
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
No. of channels	2
No. of channels	1

Dimensions

Width	80 mm

Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	5g
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electrostatic discharge (ESD)EN 61000-4-2/IEC 61000-4-2 Criterion B, ±6 kV contact discharge, ±8 kV air discharge
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electromagnetic fieldsEN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Fast transients (burst)EN 61000-4-4/IEC 61000-4-4 Criterion A, all interfaces ±1 kVCriterion B, all interfaces ±2 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Transient overvoltage (surge)EN 61000-4-5/IEC 61000-4-5 Criterion B, supply lines DC: 0.5 kV/0.5 kV (symmetrical/asymmetrical), fieldbus cable shield 1 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Conducted interferenceEN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN 61000-6-4/IEC 61000-6-4 EN 55011 Class A

Mounting

Mounting type	DIN rail mounting

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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