

PDR-1000 - Controller



1041980
<https://www.phoenixcontact.com/us/products/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

Notes

Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Controller
Product family	Inline
Type	modular

Display

Diagnostics display	no
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System properties

Processor	AlteraNios® II 64 MHz
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Function

Diagnostics display	no
Redundancy function	no
Safety function	no

Functionality

Programming languages supported	HTML5
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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 $\pm 5\%$
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Potentials

Supply voltage	24 V DC -15 % / +20 %
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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 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16

Interfaces

Web server	yes
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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
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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

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Mounting

Mounting type	DIN rail mounting
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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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