Paperless Recorder PCE-KD7

Can be used to control voltages, currents, thermocouples, resistors / with alarm functions /5.7" touchscreen / memory on CF cards up to 4 GB / mathematical functions / various digital interfaces: Ethernet, USB 1.1, RS-485, RS-232/12 channels

The digital recorder PCE-KD7 can be used as a data logger in measurement and control systems. The application area of this digital recorder includes the measurement, visualization, monitoring and storage of process variables in various industrial branches, eg in the pharmaceutical, food or chemical industry.

In addition to the analogue standard signals in the form of currents and voltages, this digital recorder can also process different types of thermocouples and resistance temperature sensors on up to 12 channels. It is also possible to retrieve up to 16 measured values via the digital interfaces Ethernet or RS-485 and also to store them. The storage medium is a CF card. An internal buffer memory allows the card to be replaced without data loss. Since the front side is protected by protection class IP 65, this digital recorder can also be used in a harsh industrial environment. Using the included software modules, recorded data can be read out and checked. Furthermore, configuration files can be created and then transferred to the digital recorder.

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- Touch screen 320 x 240 pixels
- Various digital interfaces
- Internal memory: 6 MB
- CF card slot for cards from 16 MB to 4 GB
- Direct connection of temperature sensors
- 3, 6 or 12 analog inputs
- 8 or 16 digital inputs
- 4 or 8 analog outputs
- Mathematical functions
- EN 61010-1 CAT II compliant

Specifications

Technical Data

Inputs

Number of analog inputs	3, 6 or 12
Number of digital inputs	8 or 16 inputs with common ground
Possible input signals	Voltage: ± 10 V Current: ± 20 mA Thermocouples type J, K, N, E, R, S, T, B Resistance sensors: PT100, PT500, PT1000, Ni100, CU100 Resistance: 2000 Ω Digital: 0/5 .. 24 V DC (50 Hz maximum)

Outputs

Number of analog outputs	4 or 8
Number of digital outputs	8 or 16
Analog output signal / max. burden	Current: 0 ... 5 mA or 0/4 ... 20 mA, <500 Ω Voltage: 0/1 ... 5 V,> 250 Ω or 0 ... 10 V,> 500 Ω
Alarm relay	Electromagnetic relays: 250 V AC, 1 A, 30 V DC, 1 A OptoMOS Relay: 85 V DC, 100 mA 60 V AC, 70 mA
Sensor supply	2x 24VDC, 30mA
Digital interfaces	RS-232, MODBUS slave, 0.3 ... 256 kbit / s 2x RS-485, MODBUS slave, 0.3 ... 256 kbit / s USB 1.1 Ethernet 10 Base-T

General

Power supply	90 ... 253 V or 18 ... 30 V DC
Ambient temperature	Operation: 0 ... 55 °C / 32 ... 131 °F Storage: -20 ... 60 °C / -4 ... 140 °F
Relative humidity	<70% non-condensing
Display	5.7" LCD display, touch screen, 320 x 240 pix.
Dimensions	144 x 144 x 155 mm / 5.6 x 5.6 x 6.1 in
Mass	2 kg / 4.4 lbs
Protection class	Front side: IP 65 Connection: IP 20
Power consumption	<30 VA
Safety category	EN 61010-1, CAT II 500 V

More information

Manual

More product info

Similar products

Subject to change