



Data Logger

PCE-KD 5

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PCE-KD5 Display Recorder

Up to 48 analog or binary inputs / Up to 16 switching or analog outputs / 1.5 GB internal memory / Graphical 3.5" TFT display / Approximately 30 mathematical functions / Maximum sampling rate of 10 Hz

PCE-KD5 is a display recorder or data logger for the capturing, monitoring and controlling of process parameters. The data logger is based on a Linux operating system and has three slots that can be equipped with several different inputs and outputs. Depending on your specific needs, it is possible to equip the PCE-KD5 data logger with up to 48 analog or binary inputs, 24 thermocouple inputs, 12 resistance temperature detector (RTD) inputs, 16 solid state relays (SSRs) or 8 analog outputs. This makes the PCE-KD5 a very versatile device useful in a wide variety of fields and applications.

The measured data can be stored on the internal memory of the device. When using the optional RS-232 / RS-485, USB or Ethernet interface, the data can be transferred to a PC. The optional Ethernet interface also allows for remote maintenance. The PCE-KD5 can be operated via its 3.5" touch screen display, but when using the optional interfaces, it is possible to connect a mouse or keyboard to the device.

- Up to 48 analog or binary inputs
- Up to 24 thermocouple inputs
- Up to 12 inputs for resistance temperature detectors (RTDs)
- Up to 16 relays / solid state relays (SSRs)
- Graphical 3.5" TFT display with touch screen
- Approximately 30 mathematical functions
- 8 internal PID controllers
- 3 slots for equipping inputs / outputs
- Maximum sampling rate of 10 Hz
- 1.5 GB internal memory
- Optional RS-232 / RS-485, USB or Ethernet interface
- Remote maintenance possible via optional Ethernet interface

Technical specifications

Inputs (max.)	48 analog inputs (0...20 mA or 0...10 V) 48 binary inputs (low: 0...±1 V; high: ±3...±30 V) 24 thermocouple inputs (type J, K, S, T, N, R, B, E) 12 4-wire RTD inputs (Pt100, Pt500, Pt1000) digital input: 1x 24 V DC
Outputs (max.)	8 analog outputs (4...20 mA) 16 relays (1A / 250 V) 16 SSRs (100 mA / 15 V) 4 relays (5A / 250 V)
Transmitter supply	24 V DC ± 5 %, 200 mA Standard: 1x RS-485 (Modbus RTU) Optional ETU module: 1x RS-485
Digital interfaces	1x USB host (rear side) 1x Ethernet Optional ACM module: 2x RS-485 1x RS-485 / RS-232 1x USB host (rear side) 1x Ethernet
Display	8.9 cm (3.5") TFT, graphical, colored (16 bit), 320 x 240 pixels, touch screen
Power supply	19 ... 50 V DC / 16 ... 35 V AC or 85 ... 260 V AC/DC
Power consumption	15 VA typical, 20 VA max. Standard:
Protection class	a) IP40 b) IP42 (with transparent, lockable front) c) IP65 (front; only with optional frame) With front USB: a) IP40 b) IP42 (with transparent, lockable front)
Memory	1.5 GB (enough for 50 days, 60 channels at 1 Hz sampling rate)
Sampling rate	max. 10 Hz Storing rate: Max. 200 values per second
Environmental conditions	During operation: 0 ... +60 °C During storage: -10 ... +70 °C
Dimensions	96 x 96 x 100 mm
Panel cutout	90.5 x 90.5 mm

Delivery content

1 x PCE-KD5 display recorder
1 x user manual