



RK TECHNOLOGIES

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PAPERLESS DATA LOGGER 16-32-48 Channel

Color TFT Touchscreen Paperless Recorder

* **Universal Input | 0.2% Accuracy | 7" TFT Display | 64MB Flash**

Real-time Curves • Historical Data • USB/SD Backup • Ethernet • RS485/232



16-48 CH

Universal analog input



0.2% FS

High precision accuracy



1s Sample

Fast sampling rate



64MB Flash

Internal storage + backup

PRODUCT OVERVIEW

The 16-32-48 Channel Paperless Data Logger is a universal input color paperless recorder featuring a 7-inch 800×480 TFT high-brightness LCD display. It supports multiple input types including standard voltage, standard current, thermocouple, thermal resistance, and millivolt signals. Equipped with up to 18-channel alarm output, 12-channel analog transmitting output, RS232/485 communication, Ethernet interface, mini-printer interface, USB and SD card socket.

PRODUCT FEATURES

- Universal input: TC, RTD, mV, V, mA
- 7" TFT 800×480 color LCD display
- 16/32/48 channel configurations
- Real-time & historical curve display
- 18-channel alarm relay output
- 12-channel analog retransmission
- RS232/RS485/Ethernet communication
- USB flash disk & SD card backup
- 64MB internal flash memory
- Mini-printer interface
- Password protection

APPLICATIONS

- Process temperature monitoring
- Industrial furnace & kiln logging
- Pharmaceutical batch recording
- Food processing validation
- HVAC system monitoring
- Water treatment plants
- Power plant monitoring
- Chemical process control
- Cold chain temperature logging
- Sterilization validation

Standard Package: Logger | Power Cable | USB Cable | Brackets | Manual

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	16-32-48 Channel Paperless Data Logger
Display	7" TFT LCD, 800 × 480 pixels, LED backlight
Input Channels	16 / 32 / 48 channels (configurable)
Measurement Accuracy	0.2% FS ± 1 digit
Sampling Period	1 second
Recording Interval	1, 2, 4, 6, 15, 30, 60, 120, 240 seconds
Internal Memory	64 MB Flash
External Storage	USB Flash Drive & SD Card (up to 8GB)



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Alarm Output	Up to 18 relay contacts (1A/250VAC)
Analog Output	Up to 12 channels (4-20mA, 0-10V, etc.)
Communication	RS232 / RS485 / Ethernet 10M
Power Supply	AC 85-264V or DC 12-36V
Power Consumption	≤ 20W
Operating Temperature	-10°C to 50°C
Operating Humidity	10-90% RH (non-condensing)

SUPPORTED INPUT SIGNALS

Signal Type	Range / Options
Thermocouple	B, S, K, E, T, J, R, N, F2, Wre3-25, Wre5-26
RTD	Pt100, Cu50, Cu53, Cu100, BA1, BA2
Resistance	0-400Ω linear
Current	0-20mA, 0-10mA, 4-20mA, √0-10mA, √4-20mA
Voltage	0-5V, 1-5V, 0-10V, ±5V, √0-5V, √1-5V
Millivolt	0-20mV, 0-100mV, ±20mV, ±100mV

OUTPUT SPECIFICATIONS

Output Type	Specification
Analog Output	4-20mA, 0-20mA, 0-10mA, 1-5V, 0-5V, 0-10V
Alarm Output	Relay contact 1A/250VAC (resistive)
Feed Output	DC 24V ± 1V, ≤ 250mA
RS485	Up to 1 km, MODBUS RTU, 1200-57600 bps
RS232	Up to 15 m, 1200-57600 bps
Ethernet	10 Mbps communication

INSTALLATION DIMENSIONS

Panel Cutout: 156 × 138 mm | Front Panel: 185 × 154 mm | Depth: 138 mm

STORAGE CAPACITY

Recording Time = $(64 \times 1024 \times 1024 \times \text{Recording Interval}) / (\text{Channel Number} \times 2 \times 24 \times 3600)$
Storage: 24 days (1s interval) to 5825 days (240s interval) continuous recording

Contact RK Technologies for Pricing, Demo & Calibration Services

16-32-48 Channel Paperless Data Logger | 0.2% FS Accuracy | 7" TFT Display

NABL Accredited Calibration Laboratory | ISO/IEC 17025:2017 | Cert. No. CC-4593