NEMA 4X Option for the VR06-18 Paperless Recorders

Polyester Cover with Hinged Transparent Door in Cover
Part #: VR18-NEMA4 CVR

- External Width: 11.88 in. (302.00 mm)
- External Depth: 1.77 in. (45.00 mm)
- Inside Depth: 1.65 in. (42 Mm)
- Inside Height: 10.25 in. (260 Mm)
- Inside Width: 8.84 in. (224 Mm)
- Weight: 2.27 lbs.

VR06-18 Paperless Recorder
HIGH RESOLUTION 6.4” SCREEN WITH 18 CHANNELS AND PLUG & PLAY I/O

The VR Series are modular paperless recorders that allows for up to 18 analog inputs or a mix of analog and digital I/O cards. Other features include: high-resolution color display (640 x 480 pixels), infrared detector for prolonged display life, plug & play I/O card, shallow unit depth, and user-friendly interface. The low-voltage and bench-top kit options also make the VR Series recorders ideal for portable applications.

Multiple display formats and easy-to-access keys make monitoring and setup extremely easy. Data can be stored in flash ROM, on a compact flash card, or on a PC via RS232/422/485 or Ethernet options. The VR18 meets UL, CSA, and CE approval standards.

- 6.4” Color TFT LCD with 640x480 pixels resolution
- 6 Slot Plug & Play Supported I/O Cards
- Infrared Detector to extend display life
- Up to 18 isolated input channels
- Fast Sampling Rate – 5 times per second
- Various Display Formats
- Data Log interval configurable with Instant, Average, Minimum or Maximum Values
- Optional Configurable Alarms, Messages
- Optional Transmitter Power Supply Module; 24VDC/30mA - six non-isolated channels
- Optional Math Module including Boolean logic, totalize, count, timer, etc. Includes formatted reports for daily, weekly & monthly totalize & count values
- Portable/Bench-Top Assembly Kit
- Security: Basic or optional with CFR21 Features
- Agency Approval – CE, UL & CSA

P.O. Box 1196 / Bridgeview, IL 60455
Office: 888.751.5444 / Fax: 888.307.8014
Technical Support: 866.342.5332
GENERAL SPECIFICATIONS

POWER: 90-264VAC, 47-63Hz, 60VA, 30W maximum 11-18 or 18-36 VDC 60VA, 30W maximum

DISPLAY: 6.4" TFT LCD, 640x480 pixel resolution, 256 colors

MEMORY: Storage Memory on board: 8MB, CF Card: 125MB standard. Optional 512MB and 1GB

OPERATING TEMPERATURE: 5°C to 50°C

HUMIDITY: 20 to 80% RH (non-condensing)

DIMENSIONS (W x H x D): 166 x 144 x 174mm [6.53" x 5.67" x 6.85"] Panel Mount DIN cutout dimensions: 138 x 138mm

ANALOG INPUT CARD (AI181, AI182, AI183) [consult manual for special range Negative/Positive VDC input modules]

- RESOLUTION: 18 bits
- MAXIMUM RATING: -2 VDC minimum, 12 VDC maximum
- SENSOR LEAD: T/C: 0.2 µV/ohm
- BURN-OUT CURRENT: 200nA

- TEMPERATURE EFFECT: ±1.5 µV/°C for all inputs except mA input ±3.0 µV/°C for mA input
- RESISTANCE EFFECT: 3-wire RTD: 2.6°C/ohm of resistance difference of two leads

ANALOG OUTPUT CARD (3-Channels: AO183I for mA or AO183V for VDC output)

- RESOLUTION: 15 bits
- LINEARITY: ±0.005% of Span
- OUTPUT REGULATION: 0.01% for full load change
- LOAD RESISTANCE: 0-500 ohms (current), 10K ohms minimum (voltage)

DIGITAL INPUT CARD (DI181)

- CHANNELS: 6 per card
- LOGIC LOW: -30V minimum, 0.8V maximum.
- LOGIC HIGH: 2V minimum, 30V maximum
- EXTERNAL PULL-DOWN: 1K Ohm maximum resistance
- EXTERNAL PULL-UP: 1.5MOhm minimum resistance

DIGITAL OUTPUT CARD (DO181)

- CHANNELS: 6 per card
- PORTS: AUI (Attachment Unit Interface)/RJ-5
- RELAY RATING: 5A/240 VAC, life cycles 200,000 for resistive load

ANALOG OUTPUT CARD (3-Channels: AO183I for mA or AO183V for VDC output)

- RESOLUTION: 15 bits
- ACCURACY: ±0.05% of Span ±0.0025% /°C
- LINEARITY: ±0.005% of Span
- TEMPERATURE EFFECT: ±0.0025% of Span /°C
- OUTPUT SETTING TIME: 0.1 second (stable to 99.9%)
- LOAD RESISTANCE: 0-500 ohms (current), 10K ohms minimum (voltage)

DIGITAL OUTPUT CARD (DO181)

- PORTS: AUI (Attachment Unit Interface)/RJ-5
- RELAY RATING: 5A/240 VAC, life cycles 200,000 for resistive load

Part Number Matrix

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Special Option:

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- 1: 24VDC power supply–for 6 channels
- 2: 3-channel Retrans: current output
- 3: 6-channel Retrans: current output
- 4: 9-channel Retrans: current output
- 5: 3-channel Retrans: voltage output
- 6: 6-channel Retrans: voltage output
- 7: 9-channel Retrans: voltage output
- 8: 9-channel Retrans options are available VR18 only

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Notes:

VR Series have 6 expansion slots for analog & digital I/O and Transmitter Power Supply modules

Observer I software reads data from VR06-18 CF Card; Observer II reads data from CF Card or via communication and offers additional features. For more information refer to Instruction Manual or http://www.futuredesigncontrols.com

Each card takes one of the 6 available slots. [Communication option RS232/422/485 does not utilize an expansion slot.]

Universal & Special Range Analog Input Cards are available as one, two or three inputs.

Special Range Analog Input Cards with Negative/Positive mV, VDC & mA spans are available [no t/c or RTD inputs]

Analog Output Cards are available with three outputs.

Transmitter Power Supply Card has 6 non-isolated 24VDC/30mA outputs

Digital Input & Output Cards: Each card has 6 inputs or relay output