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**Data Sheet**

August 13, 2026

YOKOGAWA

# Yokogawa MV2010 Portable Paperless Recorder, 10 Ch, 1 S (Fast sampling mode: 125 ms)

Yokogawa MV2010 10-Channel Portable Paperless Recorder The Yokogawa MV2010 is the 10-channel member of the MV2000 portable paperless recorder family. It provides 10 isolated universal inputs with normal measurement intervals of 1 s / 2 s / 5 s (and 125 ms in High-Speed mode), a 10.4-inch TFT color display, and 200 MB internal memory plus CF/USB external storage. Input types include DCV, thermocouple, RTD, DI, and DC current via external shunt. It is intended for portable multi-point process and lab recording where 10 channels suffice without the faster 25 ms mode of the MV2008. The Yokogawa MV2010 is the 10-channel member of the MV2000 portable paperless recorder family. It provides 10 isolated universal inputs with normal measurement intervals of 1 s / 2 s / 5 s (and 125 ms in High-Speed mode), a 10.4-inch TFT color display, and 200 MB internal memory plus CF/USB external storage. Input types include DCV, thermocouple, RTD, DI, and DC current via external shunt. It is intended for portable multi-point process and lab recording where 10 channels suffice without the faster 25 ms mode of the MV2008. 10-channel portable temperature and process logging; field commissioning DAQ; long-term paperless recording to internal/CF/USB media; networked Modbus/Ethernet data collection.



|                 |                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------|
| MODEL           | CALIBRATION                                                                                             |
| Yokogawa MV2010 | Available on request                                                                                    |
| CONDITION       | STATUS                                                                                                  |
| Used            | In stock                                                                                                |
| RFQ / SKU       | LISTING                                                                                                 |
| MV2010          | <a href="https://aumictechlabs.com/products/mv2010-2/">https://aumictechlabs.com/products/mv2010-2/</a> |

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## This unit

The Yokogawa MV2010 is a portable paperless recorder that captures process data across 10 input channels with optional expansion to 60 channels. It replaces traditional chart recorders with digital precision, offering flexible recording modes, color LCD display, and multiple data export formats for laboratory, plant, and test stand environments.

**Technical Specifications**

**Input Channels & Measurement** 10 input channels standard; expandable to 60 channels with specific configurations Universal inputs supporting thermocouple types (R, S, B) and extended input types Normal sampling mode: 1 second interval Fast sampling mode: 125 ms interval with 1.67 ms A/D integration time Color LCD with 16-character tag display and 32-character message display Selectable trend display: vertical, horizontal, horizontal wide, or separated horizontal

**Data Storage & Recording** Internal memory: 400 MB standard (80 MB or 200 MB options available at order) External storage: CompactFlash (CF) card and USB memory drives Binary or text file format selection Free mode or Trigger mode recording Data convertible to MS-Excel or text formats for PC processing

**Electrical & Power Supply** voltage: 90 to 132 VAC or 180 to 250 VAC Frequency: 50/60 Hz  $\pm 1\%$  Battery operation: approximately 13 hours Warm-up time: minimum 30 minutes

**Key Features** Modbus RTU and Modbus TCP support (server and client functions) Ethernet connectivity for email notifications and file transfer Web server function displays MV screen images in browser FTP server for remote file and directory manipulation Multiple input type options including PR40-20, Pt50 Digital display update rate: 1 second

**Typical Applications** Laboratory data acquisition, plant process monitoring, test stand instrumentation, and long-duration environmental measurements requiring portable, battery-backed operation.

**Compatibility & Integration** The MV2010 integrates via Ethernet for networked data exchange, supports standard industrial Modbus protocols, and outputs data in formats compatible with Microsoft Excel and text-based systems for downstream analysis.

## Features & description

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From manufacturer datasheet

### Features

- Exactly 10 isolated input channels

## MV2010 Characteristics / Specifications

| PARAMETER                   | VALUE                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                       | MV2010                                                                                                                                                                                                 |
| Manufacturer                | Yokogawa                                                                                                                                                                                               |
| Instrument Type             | 10-channel portable paperless recorder                                                                                                                                                                 |
| Channels                    | 10                                                                                                                                                                                                     |
| Measurement Interval Normal | 1 s, 2 s, or 5 s                                                                                                                                                                                       |
| Display                     | 10.4-inch TFT color LCD, 640 × 480                                                                                                                                                                     |
| Internal Memory             | 200 MB                                                                                                                                                                                                 |
| External Media              | CF card; USB memory                                                                                                                                                                                    |
| DC Voltage Ranges           | 20, 60, 200 mV; 2, 6, 20, 50 V; 1-5 V                                                                                                                                                                  |
| Thermocouple Types          | R, S, B, K, E, J, T, N, W, L, U, WRe                                                                                                                                                                   |
| RTD Types                   | Pt100, JPt100 DI: Contact or TTL level                                                                                                                                                                 |
| DCA                         | DC current with external shunt                                                                                                                                                                         |
| Input Isolation             | Floating unbalanced; isolated between channels (RTDbcommon)                                                                                                                                            |
| A/D Resolution              | +/-20000 (16-bit A/D class)                                                                                                                                                                            |
| Display Groups (family)     | 36 groups; up to 10 channels per group                                                                                                                                                                 |
| Dimensions (family)         | 307 × 273 × 260 mm                                                                                                                                                                                     |
| Weight Class (family)       | about 5.6 kg                                                                                                                                                                                           |
| Communications              | USB; RS-232; Ethernet                                                                                                                                                                                  |
| Network Functions Class     | Web; FTP; SNTP; Modbus; email                                                                                                                                                                          |
| Power                       | 100/240 VAC class (confirm option); 12 VDC option class                                                                                                                                                |
| Alias                       | MV2010; RD-MV2010                                                                                                                                                                                      |
| Family                      | MV2000 / MVAdvanced Notes Specs from Yokogawa<br>MV1000/MV2000 bulletin model table for MV2010. Note High-Speed mode may increase noise; use Normal mode A/D integration (16.7/20/100 ms) when needed. |
| Universal inputs            | DCV, TC, RTD, DI, DCA                                                                                                                                                                                  |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

|                                                                         |                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------|
| Specifications                                                          |                                                             |
| Specifications                                                          |                                                             |
| PARAMETER                                                               | VALUE                                                       |
| Model                                                                   | MV2010                                                      |
| Manufacturer                                                            | Yokogawa                                                    |
| Instrument Type                                                         | 10-channel portable paperless recorder                      |
| Channels: 10                                                            |                                                             |
| Measurement Interval Normal: 1 s, 2 s, or 5 s                           |                                                             |
| Measurement Interval High-Speed: 125 ms (A/D integration fixed 1.67 ms) |                                                             |
| Specifications                                                          |                                                             |
| PARAMETER                                                               | VALUE                                                       |
| Display                                                                 | 10.4-inch TFT color LCD, 640 x 480                          |
| Internal Memory                                                         | 200 MB                                                      |
| External Media                                                          | CF card; USB memory                                         |
| Specifications                                                          |                                                             |
| PARAMETER                                                               | VALUE                                                       |
| DC Voltage Ranges                                                       | 20, 60, 200 mV; 2, 6, 20, 50 V; 1-5 V                       |
| Thermocouple Types                                                      | R, S, B, K, E, J, T, N, W, L, U, WRe                        |
| RTD Types                                                               | Pt100, JPt100                                               |
| Specifications                                                          |                                                             |
| PARAMETER                                                               | VALUE                                                       |
| DI                                                                      | Contact or TTL level                                        |
| DCA                                                                     | DC current with external shunt                              |
| Input Isolation                                                         | Floating unbalanced; isolated between channels (RTDbcommon) |
| Specifications                                                          |                                                             |
| PARAMETER                                                               | VALUE                                                       |
| A/D Resolution                                                          | +/-20000 (16-bit A/D class)                                 |

| PARAMETER               | VALUE                                  |
|-------------------------|----------------------------------------|
| Display Groups (family) | 36 groups; up to 10 channels per group |
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Specifications

| PARAMETER               | VALUE                         |
|-------------------------|-------------------------------|
| Weight Class (family)   | about 5.6 kg                  |
| Communications          | USB; RS-232; Ethernet         |
| Network Functions Class | Web; FTP; SNTP; Modbus; email |

Power: 100/240 VAC class (confirm option); 12 VDC option class

Alias: MV2010; RD-MV2010

Related Fast 8-ch: MV2008 (25 ms High-Speed)

Family: MV2000 / MVAdvanced

Notes

Specs from Yokogawa MV1000/MV2000 bulletin model table for MV2010. Note High-Speed mode may increase noise; use Normal mode A/D integration (16.7/20/100 ms) when needed.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.