

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

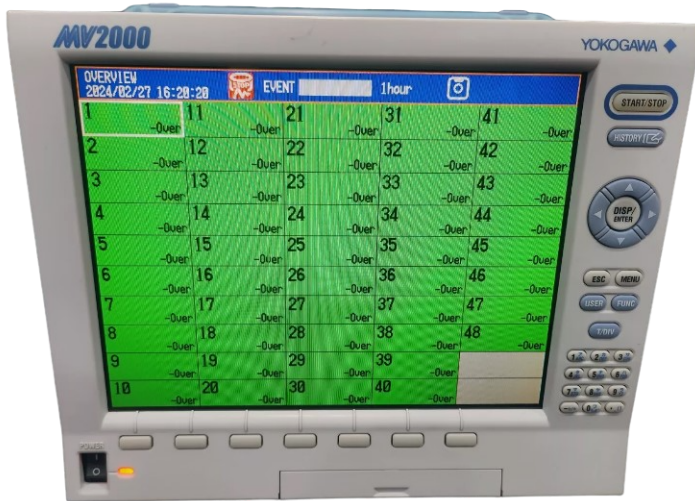
Data Sheet

August 12, 2026

YOKOGAWA

Yokogawa MV2020 Portable Paperless Recorder, 20 Ch, 1 S (Fast sampling mode: 125 ms)

Yokogawa MV2020 Portable Paperless Recorder (MVAdvanced MV2000 Series) The Yokogawa MV2020 is a 20-channel model in the MVAdvanced MV2000 portable paperless recorder family for laboratory, plant, and test-stand data acquisition. It provides isolated multi-channel logging of DC voltage, thermocouples, RTDs, DI, and DC current (with external shunt), a 10.4-inch color TFT display, 400 MB internal flash memory, CompactFlash/USB external media, Ethernet networking, and optional serial/Modbus, math, and alarm-relay functions. Discontinued by Yokogawa (discontinued date 2014-09-30 per Yokogawa Americas listing). The Yokogawa MV2020 is a 20-channel model in the MVAdvanced MV2000 portable paperless recorder family for laboratory, plant, and test-stand data acquisition. It provides isolated multi-channel logging of DC voltage, thermocouples, RTDs, DI, and DC current (with external shunt), a 10.4-inch color TFT display, 400 MB internal flash memory, CompactFlash/USB external media, Ethernet networking, and optional serial/Modbus, math, and alarm-relay functions. Discontinued by Yokogawa (discontinued date 2014-09-30 per Yokogawa Americas listing). Portable and benchtop multi-channel temperature/voltage logging; product validation and manufacturing test monitoring; process and equipment temperature evaluation; Modbus/Ethernet networked lab data acquisition; event and display data recording

**MODEL**

**Yokogawa
MV2020**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MV2020

LISTING

<https://aumictechlabs.com/products/mv2020-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa MV2020 is a 20-channel portable paperless recorder engineered for multi-signal data acquisition and long-term logging across industrial and laboratory environments. It delivers dual sampling modes - 1 second normal operation and 125 ms fast sampling with 1.67 ms A/D integration - paired with a 10.4-inch TFT color display (640 × 480 dots) for real-time waveform visualization and system configuration. The unit accepts thermocouples (J, K, T, R, S, B, E, N, W, L, U, WRe), RTDs (Pt100, JPt100), and DC voltage inputs (± 20 mV to ± 50 V) with channel-isolated measurement paths. Internal 400 MB storage expands via CompactFlash cards or USB media.

Technical Specifications

Measurement Channels & Sampling

20 input channels

Normal mode: 1 second scan interval

Fast sampling mode: 125 ms scan interval

A/D integration time (fast mode): 1.67 ms

Input Types

Thermocouples: J, K, T, R, S, B, E, N, W, L, U, WRe

RTDs: Pt100, JPt100

DC voltage: ± 20 mV to ± 50 V

Display & Storage

10.4-inch TFT color LCD, 640 × 480 resolution

Internal memory: 400 MB

External media: CompactFlash (up to 1 GB optional), USB drives

Power & Environment

Supply: 90–132 VAC or 180–250 VAC, 50/60 Hz $\pm 1\%$

Power consumption: ~ 100 VAC typical

Operating temperature: 23 ± 2 °C (standard)

Humidity: 55% $\pm 10\%$ RH (standard)

Warm-up time: ≥ 30 minutes

Physical Dimensions

307(W) × 273(H) × 254(D) mm

Weight: ~ 5.6 kg (typical configuration)

Key Features

Channel-isolated DC voltage and thermocouple inputs

Ethernet with FTP server, web server, and SNTP functions

Modbus RTU and Modbus TCP server capability

Event-triggered email transmission

Dual USB ports (external media + direct PC link)

Optional mathematical functions, remote control, and extended input types

Typical Applications

Temperature monitoring, multi-point data logging, industrial process recording, thermal transient capture, and networked sensor integration.

Compatibility & Integration

Direct PC connection via USB. LabVIEW drivers available. DAQSTANDARD acquisition software and waveform viewer included. Modbus server for SCADA integration. Optional 24 VDC transmitter power supply (2-loop) for field instrument excitation.

Features & description

From manufacturer datasheet

Features

- Measurement channels: 20 isolated input channels (MV2020 model code)
- Measurement intervals (normal): 1 s, 2 s, 5 s (100 ms A/D integration time not available on this model class)
- Fast sampling (High-Speed) mode: 125 ms; A/D integration fixed at 1.67 ms in High-Speed mode
- Input types: DCV (20, 60, 200 mV, 2, 6, 20, 50 V, 1–5 V); TC (R, S, B, K, E, J, T, N, W, L, U, WRe); RTD (Pt100, JPt100); DI (contact or TTL); DCA with external shunt
- Typical accuracy examples (A/D integration ≥ 16.7 ms): DCV 1–5 V $\pm(0.05\%$ of rdg + 3 digits), 1 mV display resolution; TC Type K $\pm(0.15\%$ of rdg + 0.7 °C), 0.1 °C (excl. RJC); RTD Pt100 $\pm(0.15\%$ of rdg + 0.3 °C), 0.1 °C
- Display: 10.4-inch TFT color LCD, 640 × 480 dots
- Display groups: up to 36 groups; max 10 channels per group; 24 trend/bar colors
- Internal memory: 400 MB flash; external CompactFlash (up to 1 GB CF accessories class) and USB memory
- Ethernet 10BASE-T: TCP/UDP/IP/ICMP/ARP/DHCP/HTTP/FTP/SMTP/SNTP/Modbus + MV dedicated protocol; Web/FTP/e-mail/SNTP/DHCP
- Clock accuracy: ± 10 ppm (excludes <1 s power-on delay)
- Optional math (/M1): up to 60 calculation channels on MV2010/MV2020/MV2030/MV2040/MV2048 class
- Power: 100–240 VAC class (90–132 / 180–264 VAC operating) or 12 VDC option class; MV2000 max power examples up to 90 VA (240 VAC) per family table
- Dimensions (MV2000 family): 307 (W) × 273 (H) × 260 (D) mm; weight approx. 5.6 kg class (MV2048 reference; confirm unit mass)
- Operating environment: 0 to 40 °C; 20 to 80% RH (at 5 to 40 °C)

MV2020 Characteristics / Specifications

PARAMETER	VALUE
Model	MV2020
Manufacturer	Yokogawa
Instrument Type	Portable Paperless Recorder / Data Logger
Family	MVAdvanced MV1000/MV2000
Alias	MV2020; Yokogawa MV2020; MV2000 20-channel Inputs / Measurement
Number of inputs	20 channels
Measurement intervals	1 s, 2 s, 5 s; High-Speed mode 125 ms
A/D integration (Normal examples)	16.7 ms, 20 ms, or 100 ms (100 ms not available as measurement interval on this model class)
Input types	DCV (20, 60, 200 mV, 2, 6, 20, 50 V, 1–5 V); TC (R, S, B, K, E, J, T, N, W, L, U, WRe); RTD (Pt100, JPt100); DI (contact or TTL); DCA with external shunt
Channel isolation	DC voltage and thermocouple inputs channel-isolated (RTD isolation optional on some models)
Typical DCV	5 V accuracy: $\pm(0.05\%$ of reading + 3 digits); display resolution 1 mV (integration ≥ 16.7 ms)
Typical TC TypeK accuracy	$\pm(0.15\%$ of reading + 0.7 °C); resolution 0.1 °C (does not include RJC accuracy)
Typical RTD Pt100 accuracy	$\pm(0.15\%$ of reading + 0.3 °C); resolution 0.1 °C Display
Device	10.4-inch TFT color LCD
Resolution	640 × 480 dots
Display groups	up to 36 groups; max 10 channels per group; 24 trend/bar colors
Trend types	vertical, horizontal, horizontal wide, separated horizontal
Digital display update	1 s
LCD screensaver	dim/OFF after 1, 2, 5, 10, 30 min, or 1 hour idle
Registered screens	max 8 Memory / Storage
Internal flash memory	400 MB

PARAMETER	VALUE
External media	CompactFlash card; USB memory
Save modes	manual/auto save of display and event data; binary and text save options; snapshot screen images to CF FTP client/server for file transfer; Web server for screen monitoring Communications
Ethernet	10BASE-T, IEEE 802.3
Protocols	TCP, UDP, IP, ICMP, ARP, DHCP, HTTP, FTP, SMTP, SNTP, Modbus, MV dedicated
AC rated	100 to 264 VAC auto-switching; operating 90–132 / 180–264 VAC; 50/60 Hz $\pm 2\%$
DC option class	12 VDC (operating 10.0–28.8 VDC)
MV2000 power consumption examples	100 VAC 28/40/65 VA; 240 VAC 38/54/90 VA; 12 VDC 9/18/35 VA (savesaver/normal/max)
External dimensions (MV2000)	307 × 273 × 260 mm (W×H×D)
Weight (family reference MV2048)	approx. 5.6 kg
Ambient temperature	0 to 40 °C
Ambient humidity	20 to 80% RH (5 to 40 °C) Lifecycle
Discontinued	2014-09-30 (Yokogawa Americas discontinued product notice) Notes Numeric specs from Yokogawa MVAdvanced MV1000/MV2000 brochure/GS content for the MV2020 row (20 ch, 1 s / Fast 125 ms). Confirm terminal type (clamp vs M4 screw), power code, language, and installed options from the order code and unit label. Do not confuse with MV2008 (8 ch, 125 ms / Fast 25 ms) or higher-channel MV2030/MV2040/MV2048 models.
Measurement channels	20 isolated input channels (MV2020 model code)
Measurement intervals (normal)	1 s, 2 s, 5 s (100 ms A/D integration time not available on this model class)
Fast sampling (High-Speed) mode	125 ms; A/D integration fixed at 1.67 ms in High-Speed mode
Typical accuracy examples (A/D integration ≥ 16.7 ms)	DCV 1–5 V $\pm (0.05\%$ of rdg + 3 digits), 1 mV display resolution; TC Type K $\pm (0.15\%$ of rdg + 0.7 °C), 0.1 °C (excl. RJC); RTD Pt100 $\pm (0.15\%$ of rdg + 0.3 °C), 0.1 °C
Display	10.4-inch TFT color LCD, 640 × 480 dots
Internal memory	400 MB flash; external CompactFlash (up to 1 GB CF accessories class) and USB memory

PARAMETER	VALUE
Ethernet 10BASE-T	TCP/UDP/IP/ICMP/ARP/DHCP/HTTP/FTP/SMTP/SNTP/Modbus + MV dedicated protocol; Web/FTP/e-mail/SNTP/DHCP
Clock accuracy	±10 ppm (excludes <1 s power-on delay)
Optional math (/M1)	up to 60 calculation channels on MV2010/MV2020/MV2030/MV2040/MV2048 class
Power	100–240 VAC class (90–132 / 180–264 VAC operating) or 12 VDC option class; MV2000 max power examples up to 90 VA (240 VAC) per family table
Dimensions (MV2000 family)	307 (W) × 273 (H) × 260 (D) mm; weight approx. 5.6 kg class (MV2048 reference; confirm unit mass)
Operating environment	0 to 40 °C; 20 to 80% RH (at 5 to 40 °C)
Humidity	20 to 80% RH (5 to 40 °C)

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	MV2020
Manufacturer	Yokogawa
Instrument Type	Portable Paperless Recorder / Data Logger
Family	MVAdvanced MV1000/MV2000
Alias	MV2020; Yokogawa MV2020; MV2000 20-channel
Inputs / Measurement	
Number of inputs: 20 channels	
Measurement intervals: 1 s, 2 s, 5 s; High-Speed mode 125 ms	
A/D integration (High-Speed): 1.67 ms fixed	
Specifications	
PARAMETER	VALUE
A/D integration (Normal examples)	16.7 ms, 20 ms, or 100 ms (100 ms not available as measurement interval on this model class)
Input types	DCV, TC, RTD, DI, DCA (external shunt)
Channel isolation	DC voltage and thermocouple inputs channel-isolated (RTD isolation optional on some models)
Typical DCV 1–5 V accuracy: ±(0.05% of reading + 3 digits); display resolution 1 mV (integration ≥16.7 ms)	
Typical TC TypeK accuracy: ±(0.15% of reading + 0.7 °C); resolution 0.1 °C (does not include RJC accuracy)	
Typical RTD Pt100 accuracy: ±(0.15% of reading + 0.3 °C); resolution 0.1 °C	
Display	
Specifications	
PARAMETER	VALUE
Device	10.4-inch TFT color LCD
Resolution	640 × 480 dots
Display groups	36; up to 10 channels per group
Trend types	vertical, horizontal, horizontal wide, separated horizontal
Digital display update	1 s
LCD screensaver	dim/OFF after 1, 2, 5, 10, 30 min, or 1 hour idle

PARAMETER	VALUE
Registered screens	max 8

Memory / Storage

Specifications

PARAMETER	VALUE
Internal flash memory	400 MB
External media	CompactFlash card; USB memory
Save modes	manual/auto save of display and event data; binary and text save options; snapshot screen images to CF

FTP client/server for file transfer; Web server for screen monitoring

Communications

Ethernet: 10BASE-T, IEEE 802.3

Protocols: TCP, UDP, IP, ICMP, ARP, DHCP, HTTP, FTP, SMTP, SNTP, Modbus, MV dedicated

Optional serial: RS-232 (/C2) or RS-422/485 (/C3) with dedicated and Modbus protocols

Optional alarm relays: /A1,/A2,/A3,/A4 (2/4/6/12 points; 12 points MV2000 only)

Optional fail/status relay: /F1

Optional math: /M1 (up to 60 calculation channels; equation length max 120 characters)

Optional external input channels: /MC1 (MV2010/MV2020/MV2030/MV2040/MV2048)

Power / Mechanical / Environment

Power / Mechanical / Environment

PARAMETER	VALUE
AC rated	100 to 264 VAC auto-switching; operating 90-132 / 180-264 VAC; 50/60 Hz $\pm 2\%$
DC option class	12 VDC (operating 10.0-28.8 VDC)
MV2000 power consumption examples	100 VAC 28/40/65 VA; 240 VAC 38/54/90 VA; 12 VDC 9/18/35 VA (screensaver/normal/max)
External dimensions (MV2000)	307 × 273 × 260 mm (W×H×D)
Weight (family reference MV2048)	approx. 5.6 kg
Ambient temperature	0 to 40 °C
Ambient humidity	20 to 80% RH (5 to 40 °C)

Lifecycle

Discontinued: 2014-09-30 (Yokogawa Americas discontinued product notice)

Notes

Numeric specs from Yokogawa MVAdvanced MV1000/MV2000 brochure/GS content for the MV2020 row (20 ch, 1 s / Fast 125 ms). Confirm terminal type (clamp vs M4 screw), power code, language, and installed options from the order code and unit label. Do not confuse with MV2008 (8 ch, 125 ms / Fast 25 ms) or higher-channel MV2030/MV2040/MV2048 models.

Available from Aumictech

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

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 12, 2026

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