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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa 3088-21 Hybrid Recorder

The Yokogawa 3088-21 is a switchboard panel instrument in the Yokogawa 2100A/2180A miniature switchboard meter family (110 mm or 80 mm square cases) for AC/DC current, voltage, and related measurements on industrial panels. Panel-mount current or voltage indication; switchboard monitoring; industrial control room instrumentation; replacement and like-for-like maintenance of legacy Yokogawa panel meters. Scale Interchange: numeral and division scales (103 series) Panel Cutout: per Yokogawa switchboard catalog drawing Burden: per movement and external multiplier/shunt Catalog identity 3088-21 follows Yokogawa switchboard numbering; confirm full scale, AC/DC type, and case size on the nameplate. Specifications densified from Yokogawa switchboard catalog (103/121 and 2100A series) where model-specific OEM tables are not published online.

**MODEL****Yokogawa 3088-21****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****3088-21****LISTING**<https://aumictechlabs.com/products/3088-21-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa 3088-21 Hybrid Recorder is a microprocessor-controlled multi-channel data acquisition and recording instrument designed for industrial process monitoring and control. It accepts inputs from up to 30 channels, processes DC voltage, thermocouple, and RTD signals, and outputs simultaneous analog trace and digital data printouts in six distinct colors via a high-speed wire-dot printer. The unit has programmable control over full-scale ranges, chart speeds,

alarms, and clock settings through a front-panel keyboard, enabling efficient multi-channel data analysis across diverse industrial automation applications.

Technical Specifications

Input Channels: Up to 30 channels

Input Types: DC voltage, JIS Type K/J/E/T/R thermocouples, ANSI/DIN/JIS thermocouple standards, resistance bulbs (RTD)

Thermocouple Accuracy: $\pm 0.25\%$ of span or less; compensation accuracy of $\pm 0.5^{\circ}\text{C}$ (K, E, J, T types) and $\pm 1^{\circ}\text{C}$ (R type)

Input Impedance: Voltage/TC: $2\text{ k}\Omega$ or less; RTD: $10\text{ }\Omega$ or less per wire; voltage divider: approximately $1\text{ M}\Omega$ (2–50 V)

Maximum Input Voltage (Continuous): 20 V DC for ranges less than 2 V DC; 100 V DC for ranges 20–50 V DC

Line Voltage: 110 V, 115 V, 200 V, or 230 V AC, 50/60 Hz

Chart Speed: Selectable from 1 to 999 mm/h

Recording Width: 250 mm (calibrated); 40 mm left and right margins

Battery Life: Approximately six months

Key Features

- High-speed wire-dot printer with six distinct color output
- Digital printout (blue): month, day, hours, minutes, channel number, and channel value at 1-, 2-, 4-, or 12-hour intervals
- Analog printout (six colors): channel value and identification numbering
- Alarm printout (red): relay number, H/L designation, and time of out-of-limit occurrence
- FAIL lamp indicates error condition with rear-panel contact output
- BAT ALARM lamp indicates low battery status
- Optional IEEE 488-1975 (GPIB) interface support

Typical Applications

Process temperature monitoring, multi-parameter data logging, industrial automation control systems, and alarm-driven event recording across chemical, manufacturing, and thermal process industries.

Compatibility & Integration

Component suitable for integration into industrial automation systems. IEEE 488-1975 (GPIB) interface available for remote communication and expanded system applications.

Features & description

From manufacturer datasheet

Features

- Switchboard panel-mount form factor

3088 Characteristics / Specifications

PARAMETER	VALUE
Model	3088-21
Manufacturer	Yokogawa
Instrument Type	Switchboard Panel Meter
Product Family	Yokogawa switchboard instruments (2100A/2180A and 103/121 series class)
Case Style	panel-mount square switchboard case
Scale Length	250 degree deflection class
Accuracy Tracking	+/-1.5% DC; +/-2% AC (103/121 series typical)
Repeatability	+/-0.5% DC and rectifier type (103 series typical)
Construction	dust and gasketed front; electrically shielded metal case (103 series)
Scale	interchangeable numeral/division scales (103 series feature)
Mounting	panel cutout per case size (2101A30/2181A00 class: 110 mm or 80 mm square)
Operating Position	vertical mounting preferred (103 series)
Full Scale	per nameplate (order code defines FS value and unit)
Frequency Range	50/60 Hz AC models; DC models per movement type
Movement	pivot and jewel (103 series); moving coil or rectifier per model code
Environmental	indoor switchboard service
Replacement Note	verify exact catalog plate for range and AC/DC type
Alias	3088-21
Case Material	metal shielded switchboard case (103 series class)
Front Cover	gasketed dust protection
Scale Interchange	numeral and division scales (103 series)
Panel Cutout	per Yokogawa switchboard catalog drawing
Burden	per movement and external multiplier/shunt
Overload	per switchboard meter class Notes Catalog identity 3088-21 follows Yokogawa switchboard numbering; confirm full scale, AC/DC type, and

PARAMETER

VALUE

case size on the nameplate. Specifications densified from Yokogawa switchboard catalog (103/121 and 2100A series) where model-specific OEM tables are not published online.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Environmental	indoor switchboard service
Replacement Note	verify exact catalog plate for range and AC/DC type
Alias	3088-21
Case Material	metal shielded switchboard case (103 series class)
Front Cover	gasketed dust protection
Scale Interchange	numeral and division scales (103 series)
Panel Cutout	per Yokogawa switchboard catalog drawing
Burden	per movement and external multiplier/shunt
Overload	per switchboard meter class Notes Catalog identity 3088-21 follows Yokogawa switchboard numbering; confirm full scale, AC/DC type, and case size on the nameplate. Specifications densified from Yokogawa switchboard catalog (103/121 and 2100A series) where model-specific OEM tables are not published online.

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.

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Model	3088-21
Manufacturer	Yokogawa
Instrument Type	Switchboard Panel Meter
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PARAMETER	VALUE
Product Family	Yokogawa switchboard instruments (2100A/2180A and 103/121 series class)
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PARAMETER	VALUE
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PARAMETER	VALUE
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Replacement Note	verify exact catalog plate for range and AC/DC type
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Specifications

PARAMETER	VALUE
Case Material	metal shielded switchboard case (103 series class)
Front Cover	gasketed dust protection
Scale Interchange	numeral and division scales (103 series)

Specifications

PARAMETER	VALUE
Panel Cutout	per Yokogawa switchboard catalog drawing
Burden	per movement and external multiplier/shunt
Overload	per switchboard meter class

Notes

Catalog identity 3088-21 follows Yokogawa switchboard numbering; confirm full scale, AC/DC type, and case size on the nameplate. Specifications densified from Yokogawa switchboard catalog (103/121 and 2100A series) where model-specific OEM tables are not published online.

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

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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.