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Data Sheet

August 15, 2026

Dwyer Instruments / LOVE CONTROLS

Dwyer Instruments / Love Controls 16A2122-948 Temperature/Process Controller

Dwyer Instruments / Love Controls Industrial Controllers & PLCs. Accuracy: ** $\pm 0.25\%$ of span ± 1 least significant digit, Voltage: ** 15 VDC @ 20 mA.



MODEL

Dwyer Instruments
/ Love Controls
16A2122-948

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

16A2122-948

LISTING

<https://aumictechlabs.com/products/16a2122-948-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Dwyer Instruments/Love Controls 16A2122-948 is a 1/16 DIN microprocessor-based temperature and process controller designed for precise monitoring and regulation in industrial applications. It features universal input selectivity, dual LED displays, and multiple control algorithms including On-off, P, PI, PID, Self-Tune PID, and Fuzzy Logic. The unit supports thermocouple, RTD, DC voltage, and DC current inputs with $\pm 0.25\%$ of span ± 1 least significant digit accuracy. Technical Specifications Model: 16A2122-948 (16A Series) Input Types: Universal, selectable thermocouple, RTD (JPt 100, Pt 100, Ni 120, Cu 50), DC voltage, or DC current RTD Input Ranges: JPt 100 -4 to 752°F (-20 to 400°C); Pt 100 -328 to 1562°F (-200 to 850°C); Ni 120 -112 to 572°F (-80 to 300°C); Cu 50 -58 to 302°F (-50 to 150°C) Display: Dual four-digit LED, 0.3 in (7.62 mm) digit height, 1° or 0.1° resolution (sensor dependent) or 1 count Measurement

Accuracy: $\pm 0.25\%$ of span ± 1 least significant digit Power Supply: 100–240 VAC nominal (+10% -15%, 50–400 Hz) or 132–240 VDC (+10% -20%); 5 VA maximum consumption Operating Temperature: 14 to 131°F (-10 to 55°C) Enclosure: NEMA 4X (IP66) front panel, waterproof and corrosion-resistant Mounting: 1/16 DIN panel mount, 45 mm $\times$ 45 mm cutout, 117 mm (4.6 in) depth Weight: 8 oz (227 g) Control & Output Control Functions: On-off, P, PI, PID manual tune, Self-Tune PID, Fuzzy Logic SSR Output: 2.0 A @ 240 VAC (77°F/25°C), derated to 1.0 A @ 130°F (55°C); DC SSR 1.75 A @ 32 VDC maximum Relay Output: 3 A @ 240 VAC resistive, 1.5 A @ 240 VAC inductive; 250 VA pilot duty @ 2 A/120 VAC or 1 A/240 VAC Alarm Relay: 3 A @ 240 VAC resistive, 1.5 A @ 240 VAC inductive; 240 VA pilot duty Switched Voltage: 15 VDC @ 20 mA Proportional Current Output: 0 to 20 mA DC scalable into 600 Ω maximum Communications & Options Optional serial communications via RS-232 or RS-485 with LoveLink™ or Modbus® RTU protocol. Four-stage setpoint selection and alternate 12–24 Vdc/Vac power supply available.

16A2122948 Characteristics / Specifications

PARAMETER	VALUE
Model	16A2122-948
Instrument Type	1/16 DIN temperature/process controller
Family	Love Controls / Dwyer Series 16A / 16C
Input Voltage	100 to 240 VAC 50/60 Hz
Operation Voltage Range	85 to 110 percent of rated voltage
Power Consumption	5 VA max
Memory	EEPROM 4 kbit non-volatile (100000 writes class)
Display	2 line x 4 character 7-segment LED; PV red, SV green
Thermocouple Types	K, J, T, E, N, R, S, B, L, U, TXK
Rtd Input	3-wire Pt100 and JPt100
Control Modes	PID, ON/OFF, or manual
Relay Output	SPDT (SPST on 1/16 DIN), max 600 VA class
Voltage Pulse	DC 14 V, max 40 mA
Current Output	DC 4 to 20 mA, load max 600 ohm
Accuracy	0.1 percent of measuring range
Scan Time	500 ms per scan (thermocouple or RTD)
Communications	MODBUS ASCII
Operating Temperature	0 C to 50 C (32 F to 122 F)
Storage Temperature	minus 20 C to 65 C
Humidity	0 to 80 percent non-condensing
Altitude	2000 m or less
Vibration	10 to 55 Hz, 10 m/s ² for 10 min eachXYZShock: max 300 m/s ² , 3 times each axis
Manufacturer	Love Controls / Dwyer Instruments
Literature	Dwyer Series 4C, 8C and 16C microprocessor temperature process control specification table

PARAMETER	VALUE
Form Factor	1/16 DIN panel
System Role	panel PID temperature/process controller
Related 8c	8C 1/8 DIN sibling in the same family table

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 65 C
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Form Factor	1/16 DIN panel
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Related 8c	8C 1/8 DIN sibling in the same family table Notes From Dwyer Series 4C/8C/16C specification table (100-240 VAC, 5 VA, 0.1 percent, 500 ms, 0-50 C). 16A2122-948 isaLove 16A configuration token; confirm relay versus pulse versus 4-20 mA on the installed unit.

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	
Technical Specifications	
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Communications	MODBUS ASCII
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Storage Temperature	minus 20 C to 65 C
Humidity	0 to 80 percent non-condensing
Altitude	2000 m or less
Vibration	10 to 55 Hz, 10 m/s2 for 10 min each X Y Z
Shock	max 300 m/s2, 3 times each axis
Manufacturer	Love Controls / Dwyer Instruments
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Notes
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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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NIST-traceable calibration · SAM registered ·
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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.