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Data Sheet

August 13, 2026

FLUKE

Fluke 2625A HYDRA Series II Datalogger

The Fluke 2625A Hydra Series II Data Logger measures DC/AC volts, thermocouple and RTD temperature, resistance, and frequency on 21 input channels. It adds substantial scan memory versus the 2620A acquisition unit, with RS-232 standard, digital I/O, totalizer, external trigger, and alarm outputs for portable unattended logging. Instrument Type: Hydra Series II Datalogger Alias: 2625A; Fluke 2625A; Hydra Series II Scan memory: 2047 scans of up to 21 channels (to 42,987 readings) Thermocouple types: J, K, E, T, N, R, S, B, C (Hoskins)



MODEL

Fluke 2625A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2625A

LISTING

<https://aumictechlabs.com/products/2625a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 2625A HYDRA Series II is a 21-channel data acquisition and logging system engineered for industrial and laboratory environments requiring simultaneous multi-parameter measurement. It acquires DC voltage, AC voltage, temperature via thermocouple (J, K, N, E, T, R, S, B, C) and RTD inputs, resistance, and frequency data across front-panel and rear-module channels. The removable Universal Input Module enables rapid reconfiguration without external signal conditioning, while automatic thermocouple reference junction compensation operates via the isothermal block temperature sensor. Technical Specifications Measurement Channels & Input: 21 analog input channels total (Channel 0 front panel; Channels 1–20 rear module) Removable Universal Input Module with integrated signal conditioning Supported thermocouple types: J, K, N, E, T, R, S, B, C Data Acquisition Performance: Fast rate: 17 readings/second nominal Slow rate: 4

readings/second nominal Continuous, interval, single, and triggered (internal/external) scan modes Single-channel monitoring during multi-channel scanning Memory & Data Storage: Non-volatile memory: 2047 scans across up to 21 channels (~42,987 total readings) Stores minimum, maximum, and most recent measurements per channel Configuration and calibration data retention Memory life: ≥ 10 years minimum Environmental & Power: Operating temperature: 0°C to 60°C ($\leq 90\%$ RH at 0–28°C) AC or DC powered Automatic data recovery and resume on power restoration Key Features Automatic thermocouple reference junction compensation Flexible data retrieval via modem, RS-232 to PC, or direct upload Portable form factor for field and bench deployment Power-loss resilience with configuration retention Typical Applications Process monitoring, quality control, thermal characterization, and multi-parameter research data collection in industrial and laboratory settings. Compatibility & Integration RS-232 interface for direct PC connection and real-time data transfer. Modem connectivity for remote monitoring and data retrieval.

Features & description

From manufacturer datasheet

Features

• 21 measurement input channels • Storage for 2047 scans (up to 42,987 readings) • Eight digital I/O lines, totalizer, four alarm outputs • TC types J, K, E, T, N, R, S, B, C; Pt385 RTD • 4-terminal resistance on channels 1-10 • RS-232 interface (IEEE-488 not available on 2625A)

Applications

• Portable multi-channel process and environmental logging • Thermocouple and RTD temperature monitoring • Unattended voltage/resistance/frequency trend recording • Lab and field Hydra Series II data collection

2625A Characteristics / Specifications

PARAMETER	VALUE
Model	2625A
Manufacturer	Fluke
Instrument Type	Hydra Series II Datalogger
Alias	2625A; Fluke 2625A; Hydra Series II
Measurement channels	21
Digital I/O lines	8
Totalizing input	1
External scan trigger	1
Alarm outputs	4
Scan memory	2047 scans of up to 21 channels (to 42,987 readings)
Thermocouple types	J, K, E, T, N, R, S, B, C (Hoskins)
RTD	DIN/IEC 751 Pt385 4-terminal resistance channels: 1 through 10
Max input other channels	150 V dc or ac rms
Functions	VDC, VAC, frequency, resistance, temperature
Interface	RS-232 standard
Power	AC or DC powered (portable)
Monitor channel	view while scanning continues Notes Specs from Fluke 2620A/2625A/2635A Hydra service manual. Confirm exact accuracy rows from the unit certificate.

2625A Specifications

PARAMETER	VALUE
Fluke 2625A Hydra Series II Datalogger	Overview
Applications	- Portable multi-channel process and environmental logging
Key Features	- 21 measurement input channels
Technical Specifications	Model: 2625A
Notes	Specs from Fluke 2620A/2625A/2635A Hydra service manual. Confirm exact accuracy rows from the unit certificate.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Model	2625A
Manufacturer	Fluke
Instrument Type	Hydra Series II Datalogger
Alias	2625A; Fluke 2625A; Hydra Series II
Measurement channels	21
Digital I/O lines	8
Totalizing input	1
External scan trigger	1
Alarm outputs	4
Scan memory	2047 scans of up to 21 channels (to 42,987 readings)
Thermocouple types	J, K, E, T, N, R, S, B, C (Hoskins)
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Functions	VDC, VAC, frequency, resistance, temperature
Interface	RS-232 standard
Power	AC or DC powered (portable)
Monitor channel	view while scanning continues Notes Specs from Fluke 2620A/2625A/2635A Hydra service manual. Confirm exact accuracy rows from the unit certificate.

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.

environmental logging

- Thermocouple and RTD temperature monitoring
- Unattended voltage/resistance/frequency trend recording
- Lab and field Hydra Series II data collection

Key Features

- 21 measurement input channels
- Storage for 2047 scans (up to 42,987 readings)
- Eight digital I/O lines, totalizer, four alarm outputs
- TC types J, K, E, T, N, R, S, B, C; Pt385 RTD
- 4-terminal resistance on channels 1-10
- RS-232 interface (IEEE-488 not available on 2625A)

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	2625A
Manufacturer	Fluke
Instrument Type	Hydra Series II Datalogger
Alias	2625A; Fluke 2625A; Hydra Series II

Specifications

PARAMETER	VALUE
Measurement channels	21
Digital I/O lines	8
Totalizing input	1
External scan trigger	1
Alarm outputs	4
Scan memory	2047 scans of up to 21 channels (to 42,987 readings)
Thermocouple types	J, K, E, T, N, R, S, B, C (Hoskins)
RTD	DIN/IEC 751 Pt385

4-terminal resistance channels: 1 through 10
Max input ch 0,1,11: 300 V dc or ac rms

Specifications

PARAMETER	VALUE
Max input other channels	150 V dc or ac rms

PARAMETER	VALUE
Functions	VDC, VAC, frequency, resistance, temperature
Interface	RS-232 standard

IEEE-488: not available on 2625A (available on 2620A option)
Power: AC or DC powered (portable)
Monitor channel: view while scanning continues

Notes

Specs from Fluke 2620A/2625A/2635A Hydra service manual. Confirm exact accuracy rows from the unit certificate.

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>

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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.