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Data Sheet

August 13, 2026

FLUKE

Fluke 2280B Data Logging System

The Fluke 2280B is a multi-function data logging mainframe for industrial process monitoring and research. With scanner and A/D options it measures thermocouples, DC voltage, and related transducer inputs, performs scaling/math, and can expand from a base channel count to large multi-chassis systems (with 2281A extenders). High-performance A/D option -161 is required for analog measurement inputs. Alias: 2280B; Fluke 2280B; 2280B/2281A system

Base simultaneous channels class: 20 ch (with appropriate scanners) System expandability: up to about 1500 points per system I/O capacity: 6 slots for input/output options



MODEL

Fluke 2280B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2280B

LISTING

<https://aumictechlabs.com/products/2280b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 2280B Data Logging System captures and analyzes measurement data across industrial process monitoring and research applications. This modular platform supports up to 400 channels with six slots for input/output options, expandable to 1500 points per system via the Model 2281A Extender Chassis. The mainframe accommodates 100 analog channels or 120 digital data channels, with scanning speeds up to 16 channels/second (single A/D option) or 30 channels/second (dual A/D options). One slot must contain an A-to-D converter for analog inputs. Technical Specifications Channel Capacity: 100 analog or 120 digital channels per mainframe; expandable to 1500 system points Scanning Speed: 16 channels/second (1 A/D option); 30 channels/second (2 A/D options) I/O Architecture: Six horizontal slots for scanner, A/D

converter, and measurement/control options DC Voltage Ranges (High Performance A/D Converter Option -161): ± 64 mV, ± 512 mV, ± 8 V, ± 64 V Input Types: Thermocouples, DC voltage Power: 12 V operation Data Computation: Basic arithmetic (addition, subtraction, multiplication, division); optional Math Coprocessor (Option 2280A-211) provides square root, exponentiation, trigonometric functions, standard deviation, logarithms, and Boolean/logical operations Front Panel: 40-character alphanumeric display, 40-column thermal printer, operating/programming keys Storage: Cartridge tape drive unit Key Features Raw data scaling and conversion with built-in computational functions Dual interface ports (Port A: bidirectional RS-232-C or IEEE-488 for host computer communication; Port B: data output only) RS-232-C connectivity for Windows-based software logging via serial port Thermal printer for real-time data capture Typical Applications Industrial process monitoring, research data acquisition, multi-channel temperature and voltage measurement, field deployment requiring 12 V operation. Compatibility & Integration Supports RS-232-C Interface Option (-341) and IEEE-488 Interface Option (-342). Expandable with Model 2281A Extender Chassis for large-scale data acquisition systems.

Features & description

From manufacturer datasheet

Features

- Modular I/O with six mainframe slots
- Thermocouple and DC voltage scanner options
- Built-in TC/RTD linearization class
- Expandable to large channel counts with extenders
- Optional RS-232 and IEEE-488 interfaces

Applications

- Multi-channel process data logging
- Thermocouple and DC voltage monitoring
- Expandable DAQ with optional IEEE-488 or RS-232
- Math/scaling and multi-task logging workflows

2280B Characteristics / Specifications

PARAMETER	VALUE
Model	2280B
Manufacturer	Fluke
Instrument Type	Data Logging System
Alias	2280B; Fluke 2280B; 2280B/2281A system
Base simultaneous channels class	20 ch (with appropriate scanners)
System expandability	up to about 1500 points per system
I/O capacity	6 slots for input/output options
Scanning speed (1 A/D)	up to 16 channels/s
Scanning speed (2 A/D)	up to 30 channels/s
A/D DC voltage ranges	+/-64 mV, +/-512 mV, +/-8 V, +/-64 V
Thermocouple scanner option class	-162 with -175 connectors; 20 inputs/scanner
DC voltage connector options	-175 or -176 class
Internal printer class	up to 40 alphanumeric characters
NOV RAM data storage class	32 KB
Processor class	8-bit with 128 KB ROM literature
Power class	includes 12 V operation literature Notes Specs compiled from Fluke 2280B/2281A rental and product literature. Confirm installed option cards (-161/-162/-341/-342) on the unit.

2280B Specifications

PARAMETER	VALUE
Fluke 2280B Data Logging System	Overview
Technical Specifications	Model: 2280B
Notes	Specs compiled from Fluke 2280B/2281A rental and product literature. Confirm installed option cards (-161/-162/-341/-342) on the 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.

performance A/D option -161 is required for analog measurement inputs.

Applications

- Multi-channel process data logging
- Thermocouple and DC voltage monitoring
- Expandable DAQ with optional IEEE-488 or RS-232
- Math/scaling and multi-task logging workflows

Key Features

- Modular I/O with six mainframe slots
- Thermocouple and DC voltage scanner options
- Built-in TC/RTD linearization class
- Expandable to large channel counts with extenders
- Optional RS-232 and IEEE-488 interfaces

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	2280B
Manufacturer	Fluke
Instrument Type	Data Logging System
Alias	2280B; Fluke 2280B; 2280B/2281A system

Specifications

PARAMETER	VALUE
Base simultaneous channels class	20 ch (with appropriate scanners)
System expandability	up to about 1500 points per system
I/O capacity	6 slots for input/output options
Scanning speed (1 A/D)	up to 16 channels/s
Scanning speed (2 A/D)	up to 30 channels/s

High-performance A/D option: -161 (required for analog inputs)

Specifications

PARAMETER	VALUE
A/D DC voltage ranges	+/-64 mV, +/-512 mV, +/-8 V, +/-64 V
Thermocouple scanner option class	-162 with -175 connectors; 20 inputs/scanner
DC voltage connector options	-175 or -176 class

RS-232 interface option: -341
IEEE-488 interface option: -342

Specifications

PARAMETER	VALUE
Internal printer class	up to 40 alphanumeric characters
NOV RAM data storage class	32 KB
Processor class	8-bit with 128 KB ROM literature
Power class	includes 12 V operation literature

Notes
Specs compiled from Fluke 2280B/2281A rental and product literature. Confirm installed option cards (-161/-162/-341/-342) on the unit.

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

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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.