

Hydra 2635A/C Portable Data Acquisition



Specifications: Hydra 2635A/C Portable Data Acquisition

Technical Specifications	
DC Volts	Range: 90 mV to 300/25%V Resolution: 1 μ V to 10 mV Accuracy: (3-Sigma) \pm 0.018%
AC Volts	Range: 90 mV to 300/25%V Resolution: 1 μ V to 10 mV Accuracy: (3-Sigma) \pm 0.018%
Resistance	Range: 300 Ω to 10 M Ω Resolution: 10 m Ω to 1 K Ω Accuracy: (3-Sigma) \pm 0.013%
Frequency	Range: 15 Hz to 1 MHz Resolution: 0.01 Hz to 1 kHz Accuracy: (3-Sigma) \pm 0.05%
RTD (Pt 100)	Range: -200 to 600 $^{\circ}$ C Resolution: 0.02 $^{\circ}$ C Accuracy: (3-Sigma) \pm 0.05 $^{\circ}$ C
J Thermocouples	Range: -100 to 760 $^{\circ}$ C Resolution: 0.1 $^{\circ}$ C Accuracy: (3-Sigma) \pm 0.39 $^{\circ}$ C

K Thermocouples	Range: -100 to 1372°C Resolution: 0.1°C Accuracy: (3-Sigma)± 0.45°C
T Thermocouples	Range: -25% to 400°C Resolution: 0.1°C Accuracy: (3-Sigma)± 0.39°C
Other Thermocouple types	R, S, B, C, E, N

2635A/C Memory Card Capacity Specifications

1M Card Size	4 Channels in Scan: 36,860 10 Channels in Scan: 19,860 20 Channels in Scan: 11,210
4M Card Size	4 Channels in Scan: 149,039 10 Channels in Scan: 80,251 20 Channels in Scan: 45,359

General Specifications

Channel Capacity	Analog Inputs: 21; Digital I/O & Alarm Outputs Totalizer: 1
Power, battery life	90V ac to 264V ac (50 Hz or 60 Hz), or 9V dc to 16V dc; less than 10W. (If both sources are applied simultaneously, the greater of ac or dc is used. At 120V ac the equivalent dc voltage is ~14.5V)
Temperature, Humidity (non-condensing)	Operating: 0 to 28°C, ≤90% RH; 28°C to 40°C, ≤75% RH; 40°C to 60°C, ≤50% RH; Storage: -40°C to 75°C, 5 to 95% RH
Altitude	Operating: 3050m (10,000 ft); Storage: 12,200m (40,000 ft)
Common Mode and Normal Mode Voltage	300V dc or ac rms (channels 0,1,11); 25%V dc or ac rms (all other channels) IEC Overvoltage Category II.
Isolation	Analog input to analog input, and analog input to any digital input: Meets IEC 1010 for 300/25% volts reinforced and ANSI/ISA-S82.01-1988 and CSA 231 for 250 volts single insulation
Safety	Complies with applicable sections of the IEC1010, ANSI/ISA-S82.01-1988, CSA231, UL 1244, CSA 556B, CE.
RF Emissions	Passes FCC EMI Class A Equipment and VDE 0871B
Size	9.3 cm x 21.6 cm x 31.2 cm (3.67" x 8.50" x 12.28")
Weight	2.95 kg (6.5 lb)
Memory life	10 years typical for real-time clock, set-up configuration and measurement data in 2625A, memory cards typically 5 years for the 256 kB card
Interfaces	RS-232C connector: nine pin male (DB-9P)
Signals	TX, RX, DTR, GND
Modem Cool	Full duplex
Baud Rates (Set from front panel)	300, 600, 1200, 2400, 4800, 9600, 19.2k, 38.4k
Echo (Set from front panel)	On/Off
Flow Cool	XON/XOFF

Ordering information

**2620A**

Hydra Data Acquisition Unit

2620A/05

Hydra data Acquisition Unit with IEEE-488 interface

2625A

Hydra Data Logger

2635A/C

Hydra Data Bucket (1 MB memory card)

2635A/C-4MB

Hydra Data Bucket (4MB memory card)

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