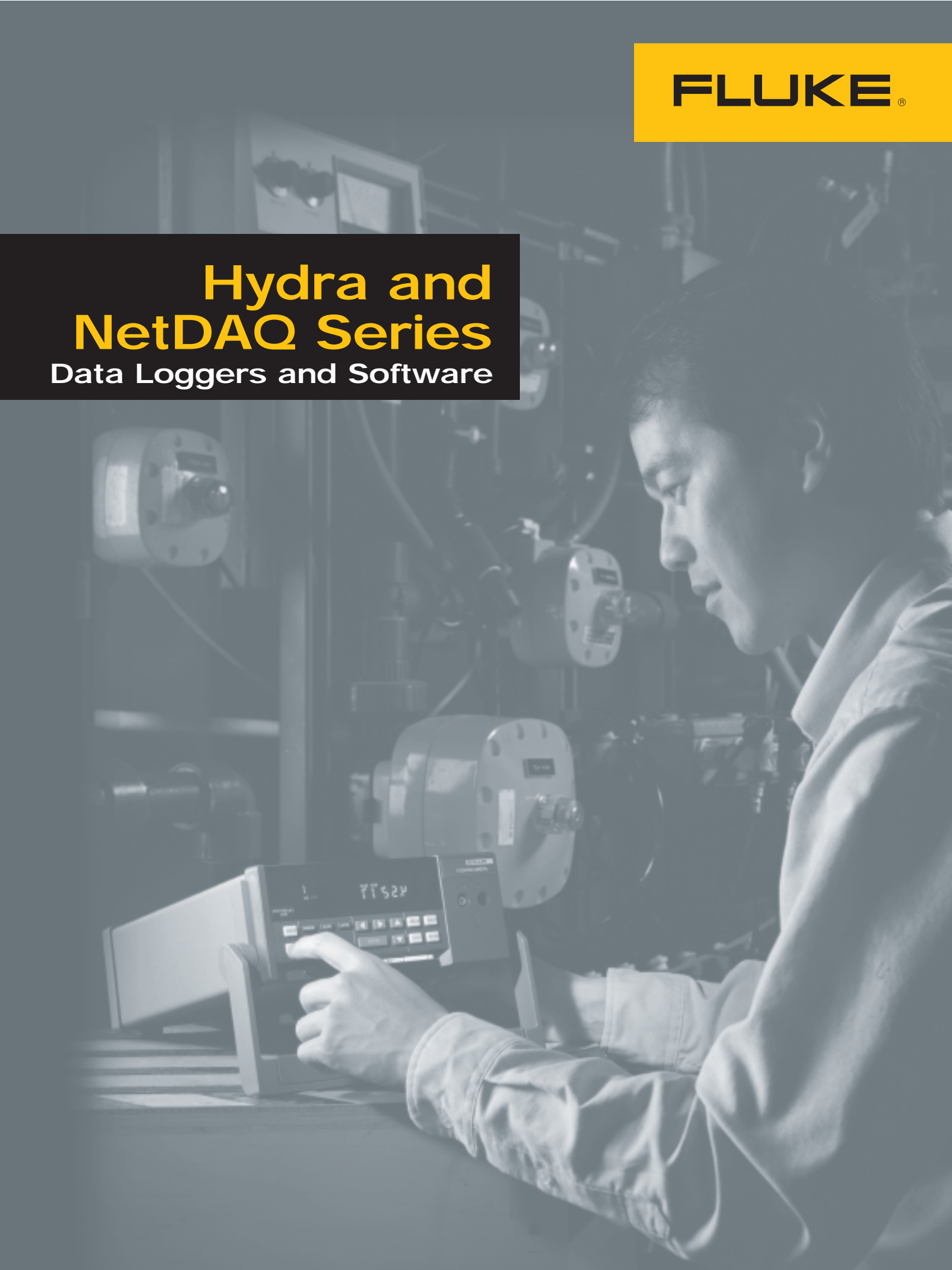# FLUKE.

Hydra and NetDAQ Series
Data Loggers and Software

Portable, flexible solutions for stand-alone or PC-based data acquisition

The Hydra Series offers easy portability along with Fluke's built-in signal conditioning and Universal Input Module at a price to fit your budget. You can easily retrieve data from Fluke Hydra units via the RS-232 interface or through a modem in upload or real-time mode. Channel information and measurement parameters can be set up directly from the front panel or your PC.

Choose from three Fluke Hydra Series models, all featuring removable memory card data storage, internal memory storage, and direct real-time data transfer options. Should power fail, these instruments automatically resume data collection when power is restored.

Hydra Data Bucket

Key Hydra™ Series features

- Review the min/max and last readings from the front panel
- Channel 0 accepts standard test leads from the front panel for quick measurements
- Monitor a selected channel from the front panel
- Use the Channel function to configure measurement type and range for each individual channel
- Use the Memory Card Drive (in 2635A only) to store data and instrument configuration on a portable, non-volatile memory card and transfer collected data to your PC for later analysis

2635A Hydra Data Bucket

The versatile Hydra Data Bucket is the ideal choice for gathering and transporting large volumes of data and for working extended periods from remote locations. It offers:

- **Flexible storage.** The Hydra Data Bucket comes with a 256K PCMCIA card and can be equipped with optional 1 MB, 2 MB, or 4 MB memory cards to suit your data storage needs.
- **Versatile data transfer.** Data may be uploaded from these cards via the Hydra RS-232 port, the optional 263XA-803 memory card drive, or from your computer's standard PCMCIA slot. You can transfer real-time data to a PC at the same time it is recorded to the memory card.
- **Quick setup.** Simply push a few front panel buttons or load instrument setups from the memory card.
- **Fail-safe features.** The Hydra Data Bucket warns of a low battery or low memory condition on the memory card. Its internal memory buffer continues to store up to 70 scans while the card is removed and replaced.

Hydra™ Series

Choose the Hydra Series that matches your requirements

| Model	Universal Signal Conditioning	Nonvolatile Data Storage	Interface
2635A Data Bucket	Yes	PCMCIA Card	RS-232
2625A Data Logger	Yes	Internal	RS-232
2620A Data Acquisition Unit	Yes	None	RS-232
2620A/05 Data Acquisition Unit	Yes	None	IEEE-488

2625A Hydra™ Data Logger

The Hydra 2625A provides a low-cost alternative for standalone monitoring operations with:
- **Built-in nonvolatile memory** that can store more than 2000 scans.
- **Flexible data retrieval** that enables you to upload stored data, or transfer real-time data via modem or directly to your PC via the RS-232 port.

2620A Hydra™ Data Acquisition Unit

The Hydra 2620A is ideal for applications that require direct connection to a PC for real-time data collection.
- **Easy-to-use front-end.** An RS-232 serial interface makes it easy to connect the Hydra Data Acquisition Unit to a PC or modem for real-time data acquisition. The 2620A can also be used as a 20-channel panel meter.
- **IEEE interface.** An optional IEEE-488 interface allows you to easily integrate the 2620A with other IEEE-488 instruments and your PC. The 2620A delivers workhorse performance for a wide variety of applications such as test and monitoring systems.
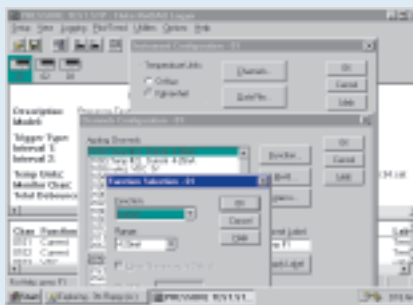
Menu-driven software simplifies setup

Hydra Logger software provides an intuitive graphical interface that makes it even easier to configure and access the powerful features of your Hydra units without any programming.

Hydra™ Logger software

Optional Hydra Logger software provides easy access to all the powerful features in the Hydra Series, enabling you to:
- Access one or two Hydra instruments at a time via RS-232
- Establish modem communications for remote data acquisition
- Convert files to .CSV or Trend Link formats
- Copy files from a Hydra Data Bucket memory card to the PC
- Store Data Bucket configurations on a memory card for easy one-step field setup

Ordering information

2620A	Hydra Data Acquisition Unit
2620A/05	Hydra Data Acquisition Unit with IEEE-488 interface
2625A	Hydra Data Logger
2635A	Hydra Data Bucket (256 KB memory card)
2635A-1MB	Hydra Data Bucket (1 MB memory card)
2635A-2MB	Hydra Data Bucket (2 MB memory card)
2635A-4MB	Hydra Data Bucket (4 MB memory card)

Includes: Instrument, Universal Input Module, line cord, user manual, Hydra Logger Software, RS43 cable

Options and accessories

2620A-100	Extra Universal Input Module
263XA-803	External PC Memory Card Drive
263XA-804	Memory Card-256 KB
263XA-805	Memory Card-1 MB
263XA-806	Memory Card-2 MB
263XA-807	Memory Card-4 MB
RS43	RS-232 cable; (DB9 to DB9), Hydra to PC; 1.8 m (6 ft)
26XXA-600	Hydra Portable Battery Pack
2620A-101	Current Shunt, 10 Ω, 0.1 % for 0 to 100 mA, Qty (12)
M00-200-634	19" Rack Mount Kit
Y8021	Shielded IEEE-488 Cable, 1 Meter
P/N 889589	Service Manual

Application software*

2635A-901	Hydra Logger (included with mainframe)
2635A-902	Hydra Logger with Trending
2600A-904	Trend Link for Fluke

*IEEE –488 not supported

- **Universal Input Module:** Connect 20 analog inputs of virtually any sensor type without external signal conditioning
- •**Hydra Interfacing:** Use RS-232 interface to connect to PC or modem
- **External Trigger:** Activate scanning with real-world events
- **Totalizer:** Count on/off events, updated at every scan
- **Alarm Outputs:** Flag out-of-limit conditions to external devices
- **Power:** Accepts 90-264 V ac, or 9-16 V dc. Can operate from both simultaneously

Hydra Series (Universal Input Module Removed)

Hydra™ Series

Channel capacity
Analog inputs: 21
Digital I/O and alarm outputs: 12 total
Totalizer: 1

Measurement rate
Slow: 4 Rdgs/s nominal
Fast: 17 Rdgs/s nominal
(1.5 Rdgs/s for V ac, Hz and Ω inputs nominal)

Analog to digital converter
Dual slope type, linear to 17 bits
Common mode rejection
AC: ≥120 dB (50/60 Hz, ±0.1 % max 1 kΩ source imbalance); dc: ≥120 dB

Normal mode rejection
53 dB (60 Hz, ±0.1 %)
47 dB (50 Hz, ±0.1 %)

Common mode and normal mode voltage maximum
300V dc or V ac rms (channels 0,1,11) 150V dc or V ac rms (all other inputs)

Isolation
Analog input to analog input, and analog input to any digital input: meets IEC 1010 for 300/150 volts reinforced and ANSI/ISA-S82.01-1994 and CSA-C22.2 for 250 volts single insulation

Current measurements
AC or dc current measurements up to 100 mA may be accomplished using the 2620A-101 10Ω Current Shunt Strip

Totalizing input
DC coupled, non-isolated, max +30V, min -4 V
Max count: 65,535
Minimum signal: 2 V peak
Threshold: 1.4 V
Rate: 0-5 kHz (debounce off)
Hysteresis: 500 mV
Input debouncing: None or 1.66 ms

Digital inputs
Threshold: 1.4 V
Hysteresis: 500 mV
Maximum Input: +30 V, min -4 V; non-isolated

Digital/alarm outputs
The open collector output lines are non-isolated, TTL compatible

Alarms associations
Alarm outputs 0-3 are fixed assignments associated to channels 0-3. Alarms for channels 4-19 are mapped to digital I/O lines. Digital I/O may be used as a digital input or alarm status output (associated with any input channel or channels).

Hydra™ Series Specifications

Hydra™ Series

Input	Range	Resolution	Accuracy (3-Sigma)[1]
DC Volts	90 mV to 150/300 V	1 µV to 10 mV	0.018 %
AC Volts[2]	300 mV to 150/300 V	10 µV to 10 mV	0.13 %
Resistance	300 Ω to 10 MΩ	10 mΩ to 1 KΩ	0.013 %
Frequency	15 Hz to 1 MHz	0.01 Hz to 1 kHz	0.05 %
RTD (Pt100)	-200 to 600 ℃	0.02 ℃	0.05 ℃
Thermocouples			
J	-100 to 760 ℃	0.1 ℃	0.39 ℃
K	-100 to 1372 ℃	0.1 ℃	0.45 ℃
T	-150 to 400 ℃	0.1 ℃	0.39 ℃
Other Thermocouple types R, S, B, C, E, N			

Detailed specifications are available on request.

[1] Total instrument accuracy for 90 days following calibration and ambient temperature range of 18 to 28 °C. Includes A/D errors, linearization conformity, initial calibration error, isothermality errors, reference junction conformity and power line voltage effects within the range from 90 V ac to 264 V ac.

[2] Accuracies for crest factor to 2.0.

Hydra™ 2635A Memory Card capacity—number of scans

Memory Card Size	Channels in Scan		
	4	**10**	**20**
256 KB	8900	4800	2710
1 MB	36860	19860	11210
2 MB	74110	39910	22550
4 MB	149039	80251	45359

Trigger input
Minimum pulse: 5 µs
Maximum latency: 100 ms
Repeatability: 1 ms
Input "High": 2.0 V min, 7.0 V max
Input "Low": -0.6 V min, 0.8 V max
non-isolated, contact closure and TTL compatible

Clock
Accurate to within 1 minute/month for 0 to 50 °C range

Power
90 to 264 V ac 50 or 60 Hz (<10 watts), or 9 to 16 V dc (<4 watts). (If both sources are applied simultaneously, the greater of ac or dc is used.) At 120 V ac the equivalent dc voltage ~14.5 V.

Temperature, humidity (non-condensing)
Operating:
0 to 28 °C, ≤90 % RH
28 to 40 °C, ≤75 % RH
40 to 60 °C, ≤ 50 % RH
Storage: -40 to 75 °C, 5 to 95 % RH

Electromagnetic Interference (EMI)
Passes FCC EMI Class B Equipment, VDE 0871B, and CE-EN61010, CE approved

Safety
Complies with applicable sections of the IEC1010, ANSI/ISA-S82.01-1994, CSA-C22.2, and CE standards as noted above

Weight
3.0 kg (6.5 lbs)
Dimensions (HxWxD)
9.3 cm x 21.6 cm x 31.2 cm
(3.67" x 8.50" x 12.28")

Interfaces
RS-232
IEEE-488 (Optional, 2620A only) – Disables RS-232 interface while in use

Hydra™ 2625A Data Memory

• Stores 2,047 scans

Scan contents
• Memory life: 5 years minimum; at 25 °C
• Date and time stamp
• All defined analog input channel values
• Status of four alarm outputs and eight digital I/O
• Totalizer count

Distributed data acquisition where and when you need it

Fluke NetDAQ networked data acquisition units are a powerful combination of hardware and software seamlessly integrated to deliver your data directly over your network. These systems, along with optional Trend Link software, enable multiple users to view just the information they need in real time, from anywhere on the system. View current, temperature, voltage, and more on the same screen at the same time. You can also monitor several units simultaneously making it ideal for small-to-medium sized equipment monitoring, product testing, and process validation applications. A NetDAQ unit can also be used as a portable dedicated system connected to a notebook computer for maintenance, product validation, research, and troubleshooting applications.

Combine from one to twenty NetDAQs into an integrated system of up to 400 channels. Use an existing network or simply connect directly to your PC. Two models offer a choice of scan speeds (up to 1,000 rps), and accuracy (up to 0.01 %) to meet your needs. And both NetDAQ models use Fluke's patented Universal Input Module which accepts any combination of analog input types for each of its 20 channels—without requiring external signal conditioning.

Fluke NetDAQ®

With all these capabilities NetDAQ addresses the escalating need for measurement, recording, and analysis tools that enable you to improve quality, maximize process efficiency and meet regulatory requirements.

Key NetDAQ® features

- Expandable systems from 20 to 400 analog channels
- High accuracy readings, up to 0.01 %
- High throughput, to support up to 3,000 rps
- Distributed design enables multiple users, equipped with Trend Link software, to view trend data at the same time
- Network flexibility enables you to add to your existing Ethernet network or set up as a dedicated system
- Replaces chart recorders

NetDAQ® is designed to fit into your system

The versatile NetDAQ system offers flexible options for data distribution.

- **Configure a dedicated system.** Simply daisy-chain one or more NetDAQ units to your desktop or notebook PC for quick, easy data collection.
- **Add NetDAQ® units to your high-speed network.** Adding NetDAQ units directly to your existing network saves the time and expense of setting up large dedicated networks and enables you to implement distributed applications with NetDAQ units in multiple locations enabling multiple PC users to monitor data in real time as it is collected. NetDAQ Logger software works with any Ethernet network that uses TCP/IP communications protocol and supports major network operating systems including Microsoft, Novell, Banyan Vines, and others. Built-in 10Base-2 (coax) and 10Base-T (twisted pair) connectors give you options for hookup configuration.
- **Add a dedicated NetDAQ® system to your company network.** Isolate your data acquisition application from the rest of the network while still allowing multiple-user viewing. This prevents your data acquisition application from being hampered by network operations and protects it from network failure.
- **Quick results you can rely on.** The NetDAQ system supports 3,000 rps from multiple instruments ensuring high throughput

NetDAQ Series

Choose the NetDAQ Model that matches your requirements

Model	Reading/sec (Max)	Resolution (Volts DC)	Max. Input (Volts DC)	Basic TC Accuracy (Type T)
2640A	100	0.3 mV	150/300*	0.3 °C
2645A	1,000	3.0 mV	50	0.7 °C

for all units. Plus on-board memory provides a data buffer in case network traffic prevents timely delivery of time-stamped data to the host PC.

- **Computed channels save time.** In addition to its 20 analog input channels, each NetDAQ unit supports 10 computed channels. The computed channels perform custom calculations using addition, subtraction, multiplication, division, log, natural log, exponent, square root, absolute value, and integer functions. Math channels feature the same alarm capability as analog channels which saves having to perform separate post calculations on channel data. It is also especially useful for monitoring and alarming on real-time calculated values such as power, flow, volumes, pressure, and more.

- **Count more than four billion "on/off" events.** Both NetDAQ models include a totalizer input channel which is continuously sampled and recorded.

NetDAQ® 2640A

The Fluke NetDAQ 2640A delivers extremely high accuracy and resolution to provide calibration-level performance:

- Measures up to 300 V at up to 100 rps
- Offers 0.01 % volts dc—0.3 °C TC accuracy and 18-bit resolution
- Scans from 6 to 100 channels per second

NetDAQ® 2645A

The NetDAQ 2645A delivers higher speed data acquisition making it ideal for applications that require more dynamic signal capture.

- Directly measures multiple inputs of up to 50 V at 1,000 rps
- Delivers 0.01 % V dc - 0.3 ºC TC accuracy and 18 bit resolution
- Scans 48 to 1,000 channels per second
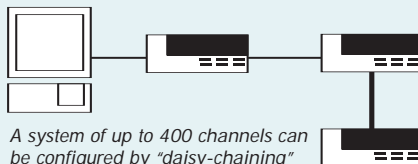
A system of up to 400 channels can be configured by "daisy-chaining" multiple NetDAQ units to one PC.

NetDAQ® Logger and optional trending software give you the data you need where you need it

Fluke's intuitive NetDAQ Logger software is included with each NetDAQ and makes it easy to set up and configure up to 20 NetDAQs. Combining NetDAQ Logger software with our optional trending software enables multiple users to easily monitor processes and import data into spreadsheet programs for further analysis. This provides more efficient operation and improved productivity. NetDAQ Logger software supports:

- Setting up multiple NetDAQ units, distributed throughout your facility in a grouped mode to create a "virtual instrument" that synchronizes and directs all data to a single data file
- Recording only readings outside the range of your normal process limits to save valuable disk space
- A choice of languages at installation, including English, French, Spanish, or German
- Easy network configuration
- Advanced triggering modes
- File Rollover feature that automatically creates a new data file at a specific time or when your file reaches a specified size limit

Optional Developer's Toolbox speeds system integration

The optional Fluke NetDAQ Developer's Toolbox allows programmers and developers to automate and customize NetDAQ operation using Visual Basic, C or C++ programming languages. It includes a set of routines which manipulate NetDAQ measurement hardware through NetDAQ Logger for Windows software.

Ordering information

2640A	NetDAQ Data Acquisition Unit (100 rps)
2645A	NetDAQ Data Acquisition Unit (1,000 rps)

Includes: Instrument, Universal Input Module, NetDAQ Logger Software, 3M cross-over network cable, power cable and user manual on CD.

Application software

2640A-911	NetDAQ Logger
2640A-912	NetDAQ Logger with Trend Link
2600A-904	Trend Link for Fluke
264XA-903	Developer's Toolbox

Options and accessories

264XA-803	PCMCIA-to-LAN Adapter (10/100 Base-T)
2620A-100	Extra Universal Input Module
2620A-101	Current Shunts, 10 Ω for 0 to 100 mA, Qty (12)
Y2641	19" Rack Mount Kit, single/dual

- **Universal Input Module:** Connect 20 analog inputs of virtually any sensor type without external signal conditioning
- **NetDAQ Interfacing:** Ports for both 10Base-2(coaxial) and10Base-T (twisted pair) are provided for convenient network cabling. RS-232 input for calibration
- **External Trigger:** Activate scanning with real-world events
- **Totalizer:** Count on/off events, value reported with every scan
- **Alarm Outputs:** Flag out-of-limit conditions to external devices
- **Power:** Accepts 107-264 V ac, or 9-16 V dc. Can operate from both simultaneously for fail-safe power operation

Fluke NetDAQ® rear panel (Universal Input Module removed)

NetDAQ®
2640A/2645A

Channel capacity
Analog inputs: 20
Computed channels: 10

Computed channels
Ten computed channels can be created by processing analog input channels and other computed channels with addition, subtraction, multiplication, division, log, natural log, exponent, square root, absolute value, and integer functions.

   In addition, the following predefined selections are available: the average of a group of channels, the difference between any two channels, the difference between a channel and a group of averaged channels.

Measurement rate (2640A)
Slow: 6 Rdgs/s nominal
Medium: 41 (50 Hz), 48 (60 Hz) Rdgs/s nominal
Fast: 100 Rdgs/s nominal
(5 Rdgs/s for V ac nominal, 140 Rdgs/s on 300 Ω range, 37 Rdgs/s on 3 MΩ range)

Measurement rate (2645A)
Slow: 45 (50 Hz), 54 (60 Hz) Rdgs/s nominal
Medium: 200 Rdgs/s nominal
Fast: 1000 Rdgs/s nominal
(5 Rdgs/s for V ac nominal, 370 Rdgs/s on 300 Ω range, 44 Rdgs/s on 3 MΩ range)

Analog to digital converter
2640A: Multi-slope type, linear to 18 bits
2645A: Multi-slope type, linear to 16 bits

Common mode rejection
2640A: AC: ≥120 dB (50/60 Hz, ±10.1 % max 1 kΩ source imbalance); DC: ≥120 dB
2645A: AC: ≥100 dB (50/60 Hz, ±10.1 % max 1 kΩ source imbalance); DC: ≥100 dB

Normal mode rejection
50 dB @ 50/60 Hz, ±10.1 % Common mode and normal mode voltage maximum
2640A: 300 V dc or V ac rms (channels 1,11); 150 V dc or V ac rms (all other channels)
2645A: 50 V dc or 30 V ac rms (all channels)

Isolation
2640A: Analog input to analog input, and analog input to any digital input; meets IEC 1010-1 Category II ANSI/ISA-82.01-1994 and CSA-C22.2 No. 1010.1-92 for 150/300 volts reinforced
2645A: Analog input to any digital input; meets IEC 1010 Category II, ANSI/ISA-82.01-1994 and CSA-C22.2 No. 1010.1-92 for 150/300 volts reinforced

Current measurements
AC or dc current measurements up to 100 mA may be accomplished using the 2620A-101 10 Ω Current Shunt Strip

Model 2640A NetDAQ®

Input	Range	Resolution	Accuracy (3-Sigma)[1]
DC Volts	90 mV to 150/300 V	0.3 µV to 1 mV	0.01 %
AC Volts[2]	300 mV to 150/300 V	10 µV to 10 mV	0.3 %
Resistance	300 Ω to 3 MΩ	1 mΩ to 10 Ω	0.015 %
Frequency	15 Hz to 1 MHz	0.01 Hz to 100 Hz	0.05 %
RTD (Pt100)	-200 to 600ºC	0.003 ºC	0.06 ºC
Thermocouples			
J	-100 to 760 ºC	0.02 ºC	0.35 ºC
K	-100 to 1372 ºC	0.02 ºC	0.4 ºC
T	-100 to 400 ºC	0.02 ºC	0.3 ºC
Other Thermocouple types R, S, B, C, E, N			

Model 2645A NetDAQ®

Input	Range	Resolution	Accuracy (3-Sigma)[1]
DC Volts	90 mV to 50 V	3 µV to 10 mV	0.02 %
AC Volts[2]	300 mV to 30 V	10 µV to 1 mV	0.3 %
Resistance	300 Ω to 3 MΩ	10 mΩ to 100 Ω	0.02 %
Frequency	15 Hz to 1 MHz	0.01 Hz to 100 Hz	0.05 %
RTD (Pt100)	-200 to 600ºC	0.03 ºC	0.16 ºC
Thermocouples			
J	-100 to 760 ºC	0.2 ºC	0.7 ºC
K	-100 to 1372 ºC	0.2 ºC	0.8 ºC
T	-100 to 400 ºC	0.2 ºC	0.7 ºC
Other Thermocouple types R, S, B, C, E, N			

Detailed specifications are available on request.

[1] Total instrument accuracy for 90 days following calibration and ambient temperature range of 18 to 28 °C. Includes A/D errors, linearization conformity, initial calibration error, isothermality errors, reference junction conformity and power line voltage effects within the range from 107 V ac to 264 V ac.

[2] Accuracies for crest factor to 2.0.

Totalizing input
DC coupled, non-isolated, max +30 V, min -4 V
Max count: 4,294,967,295
Minimum signal: 2 V peak
Threshold: 1.4 V
Rate: 0-5 kHz (debounce off)
Hysteresis: 500 mV
Input debouncing: None or 1.66 ms

Digital inputs
Threshold: 1.4 V
Hysteresis: 500 mV
Maximum input: +30 V, min -4 V; non-isolated

Digital/master alarm outputs
The open collector output lines are non-isolated, TTL compatible

Digital I/O and alarm outputs
8 total; totalizer: 1

Alarm associations
Digital I/O may be used as a digital input or alarm status output (associated with any input channel or channels)

Trigger input
Minimum pulse: 5 µs
Minimum latency: 2 ms
Repeatability: 1 ms
Input "High": 2.0 V min, 7.0 V max
Input "Low": -0.6 V min, 0.8 V max non-isolated, contact closure and TTL compatible

Clock
Accurate to within 1 minute/month for 0 to 50°C range

Power
107 to 264 V ac, 50 or 60 Hz (<15 watts), or 9 to 16 V dc (<6 watts). (If both sources are applied simultaneously, the greater of ac or dc is used.) At 120 V ac the equivalent dc voltage ~14.5 V.

Temperature, humidity (non-condensing)
Operating:
-20 to 28 °C, ≤90 % RH
28 to 40 °C, ≤75 % RH
40 to 60 °C, ≤50 % RH
Storage: -40 to 70 °C, 5 to 95 % RH

Altitude
Operating: 2000m (6,500 ft)
Storage: 12,200m (40,000 ft)

Electromagnetic Interference (EMI)
Passes FCC EMI Class B Equipment, Vfg. 243, European Norms EN50081-1 and EN50082-1, CE approved

Safety
Complies with applicable sections of CE, IEC 1010-1, ANSI/ISA-S82.01-1994, CSA-C22.2 No. 1010.1-92 and CSA standards as noted under "Isolation"

Weight
3.7 kg (8.2 lbs)

Dimensions (HxWxD)
9.3 cm x 21.6 cm x 39.4 cm (3.67" x 8.50" x 15.50")

Battery life
10 years minimum for real-time clock

Interfaces
Ethernet: Conforms to IEEE 802.3 Ethernet standard. Compatible with 10Base-2 and 10Base-T standards. Uses TCP/IP protocol. RS-232C: For calibration only. The optional NetDAQ Service Manual provides step-by-step calibration instructions.

Data buffer memory
Each scan consists of computed channels, time stamp, all defined analog input channels, the status of the eight digital I/O, and the totalizer count.

The number of stored scans varies with the number of channels configured ranging from 6400 scans for 1 configured channel to 1,896 scans for 20 configured channels.

Optional Software

Trend Link for Fluke software

Gain advanced trending capabilities

Optional Trend Link for Fluke software, available for Hydra and the NetDAQ Series—enables you to easily access, view, analyze, and compare tremendous amounts of real-time or historical data from any Fluke data acquisition product, making paper chart recorders obsolete. Trend Link makes it easy to:
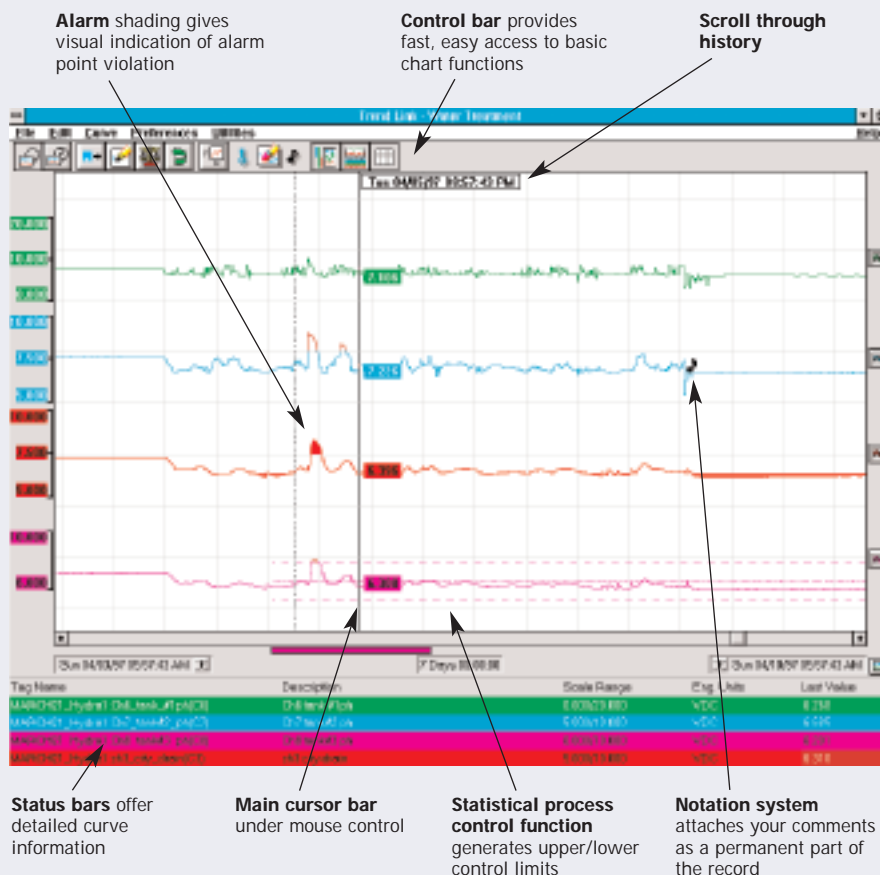
- Review real-time data in the context of historical data for performance or batch comparisons
- Automatically view statistics on any channel and compare multiple channels from different time periods
- Zoom in on a particular time span for closer analysis
- View multiple windows—each featuring different process parameters—in real time
- Calculate basic statistics such as mean and standard deviation for any trend
- Create X-bar R charts and X-Y scatter diagrams for statistical analysis
- Import data directly into spreadsheet programs from trend plots
- Attach text notes to any point on a trace that become part of a permanent record

Quickly find specific data

With Trend Link you can quickly scroll through volumes of historical and real-time data looking for key events or changes in the process. The dead-banding feature lets you limit recording to only those readings outside of the range of your normal process limits, saving you valuable disk space. Trend Link time stamps data with millisecond resolution so you can find just the data you're looking for. Then you can compare multiple traces on the same screen or zoom in on a particular point in time.

Manage your data

The File Rollover feature lets you manage data file size, which is a big advantage for long duration

Alarm shading gives visual indication of alarm point violation

Control bar provides fast, easy access to basic chart functions

Scroll through history

Status bars offer detailed curve information

Main cursor bar under mouse control

Statistical process control function generates upper/lower control limits

Notation system attaches your comments as a permanent part of the record

data collection. You can create new data files when the file reaches a certain size, at a specific time interval, or at a specified hour each day.

Document your results

Cut and paste the data and trend plots you generate with Trend Link software into spreadsheet and word processing programs to generate presentation-quality reports. Or print plots directly for hard copy documentation.

Optional Developer's Toolbox speeds system integration

The optional Fluke NetDAQ Developer's Toolbox allows programmers and developers to automate and customize NetDAQ operation using Visual Basic, C or C++ programming languages. It includes a set of routines which manipulate NetDAQ measurement

hardware through NetDAQ Logger for Windows software allowing you to:

- Create custom user interfaces for NetDAQ applications
- Access real-time data and store it in any format, such as a custom database
- Automatically load various setup files
- Change Mx+B values for each channel on an instrument
- Control digital I/O channels
- Access and control the NetDAQ serial port

Ordering information

FLUKE ®

Fluke. *Keeping your world*
up and running.