

Rugged MicroDAQ

WHAT IS RUGGED MICRODAQ:

Based on the same technology as our popular MicroDAQ data acquisition product series, the **new Rugged MicroDAQ range** was introduced to provide data acquisition in industrial environments. From dusty factories to automotive testing, from humid locations to greasy workshops, the Rugged MicroDAQ is perfectly suited for them all.

The custom designed extruded aluminium housing provides a protective enclosure for the product. Performance of the Rugged MicroDAQ is further enhanced by its isolation from the noisy PC environment.



Power wise, the Rugged MicroDAQ is extremely versatile. It features an integrated 60W switch mode power supply. Two versions of the power supply are available, a wide range DC-input supply and a universal AC-input supply. Both power supplies are fused and run cool due to the housing's heat sinking fins.



DC Power Supply Input Range: 18-40VDC
AC Power Supply Input Range: 90-264VAC

To protect against dust and liquid, the unit has a complete "O"-ring seal, as well as IP-68 Weatherproof connectors for the USB and Power connections. This makes the Rugged MicroDAQ series Splash Proof, and able to operate in humid environments.



All connections can be screwed on, including the USB and the power connectors. This is extremely useful in applications where there is a high degree of vibration present.

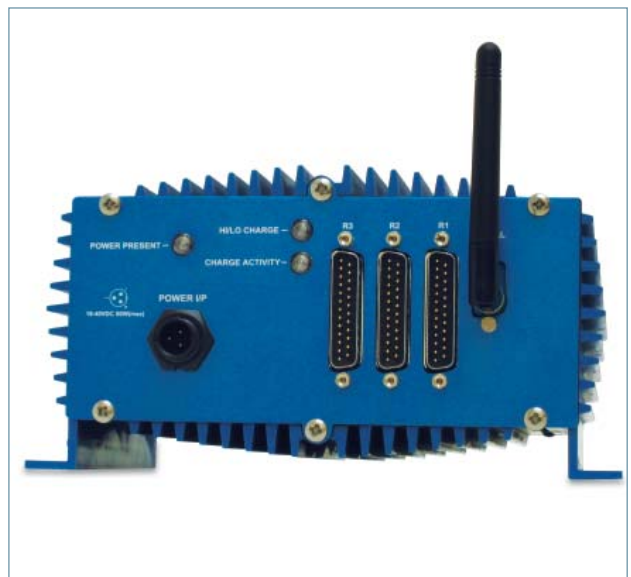


For portable field applications or as a backup, the Rugged MicroDAQ has an optional integrated rechargeable NiMH battery pack which can power the unit for 2 - 20 hours. A sophisticated charger is built-in which handles battery charging and management.

With their wide range of interface and power supply options, the Rugged MicroDAQ series provides easy connection and integration with industrial and commercial computers and control systems.



The Rugged MicroDAQ also features three LED indicators, one for external power, one for USB activity and one for charge status.



Rugged MicroDAQ

FEATURES OF RUGGED MICRODAQ:

- USB, RS-232, RS-485 or Wireless Interface
- Analog Input & Output Channels
- Digital Input & Output Channels
- Temperature Inputs
- Counter/Timers
- Ideal for industrial environments
- Not affected by dust and dirt
- Splash Proof
- Isolated from noisy PC environment
- Able to withstand high levels of vibration
- Optional DIN mounting kit
- AC and DC power supply options
- Optional Battery Pack
- Sophisticated Built-in Charger
- Rugged Extruded Aluminium housing
- Status LED's
- Comes with EDRE SDK, EDRE-Labview, ERDE-Testpoint and WaveView for Windows.



DIN Rail Mounting Clips & Vibration Rubber Feet

RUGGED MICRODAQ SPECIFICATIONS:

ANALOG INPUTS (A/D)

Input Characteristics

Input Channels:	None / 16 / 32 Single Ended (Model Dependent)
Input Ranges:	$\pm 2.5V$ $\pm 5V$ $\pm 10V$ $0-5V$ $0-10V$
Gain Scale:	1 / 10 / 100
Resolution:	14-bit
Input Coupling:	DC
Max Sampling Rate:	3kHz / 250kHz / 400kHz (Model Dependent)
Clock Source:	Internal 10MHz External – Convert (EXT_CLK)
Gate Source:	External – GATE (EXT_GATE)
Input Impedance:	1M Ohm
System Noise:	± 1 LSB

ANALOG OUTPUTS (D/A)

Output Characteristics

Output Channels:	None / 4 / 8 (Model Dependent)
Output Range:	$\pm 10V$
Resolution:	14-bit
Full Scale Error:	± 2 LSB
Settling Time:	1mS to 0.1% of full scale
Output Drive	$\pm 10V$ @ 5mA
Power-On State:	0V

DIGITAL I/O (DIO)

No. of TTL Lines:	24 / 48 / 72 / 96 / 120 / 144 / 168 (Model Dependent)
-------------------	--

Logic Levels:

Input Low Voltage:	-0.5V to 0.8V
Input High Voltage:	2.0V to 5.0V
Output High Voltage Min:	2.4V
Output Low Voltage Max:	0.45V
Maximum Output Current:	2mA

TEMPERATURE INPUTS (TC)

Input Channels:	None / 16 / 32 (Model Dependent)
TC Range:	$\pm 75mV$
Gain:	Hardware TC or RTD
Resolution:	14-bit
Input Coupling:	DC
Input Impedance:	1M Ohm
System Noise:	1 LSB



USB AC Power & Cable



SRL RS232 AC Power & Cable



SRL RS232 DC Power & Cable



Wireless Antenna & AC Power



USB DC Power & Cable



SRL RS485 AC Power & Cable



SRL RS485 DC Power & Cable



Wireless Antenna & DC Power