HMi ELEMENTS™
REFINED STRENGTH

THE 1801-Z1

ZONE 1 HUMAN-MACHINE INTERFACE

Zone 1 certified portable DAQ system, designed specifically for use in the oilfield.

Customisable digital I/O, analog I/O, barriers, and firmware to meet end users' unique requirements.



ENVIRONMENT READY
-40°C to +60°C Operating Temperature.

CERTIFICATION
ATEX, IECEx, UKEX
NEC 505 (AEx)
CEC CSA 22.2 Section 18

CUSTOMISABLE I/O
Customisable Analogue and Digital I/O.

INTELLIGENT PSU
Provides monitoring and event logging of power source. Indicators on the front panel.

INTERFACE DESIGN
User defined front panel layout.

HMI ELEMENTS

TYPICAL EX CODE	**ATEX :** Ex II 2G **:** Ex db eb ib mb IIC T4 Gb **IECEx :** Ex db eb ib mb IIC T4 Gb **USA :** Class1 Zone1 AEx db eb ib mb IIC T4 Gb **Canada :** Ex db eb ib mb IIC T4 Gb
POWER REQUIREMENTS	100 to 240 VAC 47-63Hz Universal Input
OPERATING TEMPERATURE	-40°C to +60°C
STORAGE TEMPERATURE	-40°C to +85°C
HUMIDITY	Operating: 10 - 90%. Non-operating: 10-100%
WEIGHT	15kg (33lbs)
SIZE	W 430mm (16.93") x H 417mm (16.3") x D 165mm (6.5")
MATERIAL	Aircraft Grade Aluminium
INGRESS PROTECTION	IP66 / Designed to meet NEMA 4X
INTERFACES	3x Ex d Wireless antenna, 2x Ex d Power, 2x Ex d control/Signal, 8x IS barriered I/O
CHANNELS BARRIERED DIGITAL	Configurable channels including; Namur switches, Quadrature encoder, 24VDC switched outputs.
CHANNELS BARRIERED ANALOGUE	Configurable channels including; 4-20mA, low level inputs, bidirectional mA drive outputs, bridged analogue inputs, load cell,
PROCESSOR/MEMORY	AMD G series 1GHz, 4GB RAM, 128GB SSD storage.
DISPLAY	OLED Matrix display 256 x 64 pixels.
COMMUNICATIONS	LED Diagnostic Indicators.
DIAGNOSTICS	Extensive continuous status monitoring with logging.

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Design and specifications subject to change without notice. Errors and omission excepted.

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