

The ZB108 is a microprocessor based I/O module with wireless connectivity based on ZigBee mesh networking. The ZB108 has been designed for mobile applications or where control and monitoring of fixed plant via hardwired connections are prohibitive.

**Features**

- ZigBee mesh networking and compatible with IDC ZB product range
- Programmable
- 4DI/4DO/Serial
- Built in 0.5mm<sup>2</sup> cage clamp terminals
- 10 - 30V DC Supply
- IP67 Enclosure
- Extensive LED Diagnostics

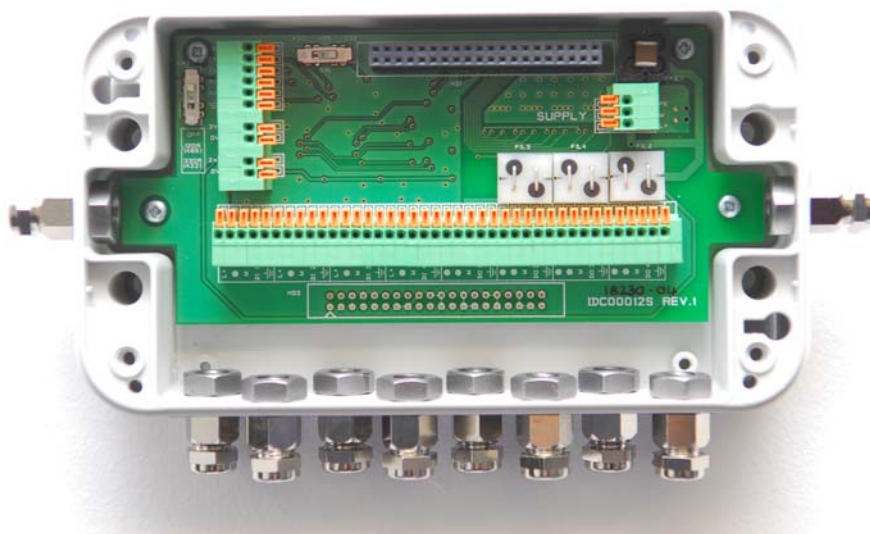


**Specification**

Processor	Industry standard 8051 MCU, 32 MHz, 8 bit Microcontroller
Memory	8kB RAM, 128kB Flash, Optional SPI memory
Wireless Communications	2.4 GHz IEEE 802.15.4 RF transceiver
Power Supply Input Vs	10–30V DC @ 6 Amp Max.
Transducer Power Supply	10–30V DC (Nominal 24V DC) @ 0.5 Amp
Serial Port Power Supply 1	10–30V DC (Nominal 24V DC) @ 0.5 Amp
Serial Port Power Supply 2	3.3V DC (Regulator limited – up to 1.5A)
Digital Inputs	4x PNP/Contact 10–30V DC (10mA @ 24V DC), selectable 10ms filter
Digital Outputs	4x Hi Side FET – Vs @ 1Amp – Short Circuit Protected
Serial Communications	RS232 / RS422 / RS485, 120Ω and 300Ω termination switch
LED Diagnostics (1)	Power, Radio status (OK / Fail), Serial status (Rx/D / Tx/D)
LED Diagnostics (2)	4x DI Status (State / Filter), 4x DO Status (State / Short or Open Cct)
SPI Memory Option	FRAM (>>512kbit); EEPROM (>>512kbit); FLASH (>>32Mbit)

## Specification

Radio Data Rate	256 kbps
Receiver sensitivity	-94 dBm
RF Output Power	Power programmable (-25dBm – 0dBm)
Addressing	Unique 64-bit MAC address chip
Termination	Cage clamp, 0.14 - 0.5mm <sup>2</sup> solid/stranded, 6A, 63V
Glands	Brass, IP68, Cable OD 3.5 – 5.5mm
Enclosure	ABS - Flame Retardant (UL 94 V-0), 160 x 90 x 50 (W x H x D mm)



Base termination board and enclosure



ISO9001: 2000 QA Certified