

Outpost COBRA

Wireless Endpoint Specifications

The Outpost COBRA endpoint is a revolutionary integrated monitoring solution. Connect the COBRA to any compatible meter or sensor in mobile phone coverage and continuously monitor data with only a 5W solar panel. The meter or sensor readings are automatically transmitted to your web site or directly to your billing system.

- \star Environmental & Agricultural Monitoring
- \star Advanced Metering Infrastructure
- \star Smart Energy Monitoring
- Step 1 Connect to compatible meter or sensor
- Step 2 Swipe magnet to activate your Outpost
- Step 3 You're done! View data from your website

Rechargeable Batteries

Internal rechargeable batteries designed to power direct from solar



Completely waterproof device. Save money on extra enclosures.



Outpost COBRA Series logger. Smart phones can be used to assist installations.



Install the device anywhere with

GSM mobile phone coverage

COBRA	-aG	-bcccdM	-EA
Outpost Family	a = Telecommunications	b = 1 or 2 Inputs of type ccc (optional: cable length d meters)	Antenna
COBRA = revolutionary monitoring end point	a = 3 = 3G = HSPDA (Tri-band)	ccc = ENV = M12 conn with 1 x pulse & 1 x 4-20mA input, 30cm ccc = TMP = NTC thermistor temperature channel (d=1,6) ccc = SDI12 = M12 conn with SDI12 interface, 30cm	EA = external antenna (SMA)

Deloitte. Technology Fast500 Asia Pacific 2009 Winner Asia Pacific 2008 Winner







NEW ZEALAND

Lvl 3, 128 Broadway, Newmarket Auckland, New Zealand

www.outpostcentral.com

Tel: +64 9 579 8404 Fax: +64 9 579 1090



Technical Specifications

Analog Inputs (-ENV option)

Channels	max 2 (order code)
 Accuracy 	0.1%
 Electrical 	0-20mA, single ended
 Switched Power Output (SPO) Max 	200mA

Pulse/Counter (-ENV option)

Channels	max 2 (order code)
Open-circuit voltage	2.8V
Close circuit voltage threshold	1.2V
Input Impedance	1MOhm
 Minimum Pulse Width 	20ms
Maximum Frequency	25 Hz

Datalogger

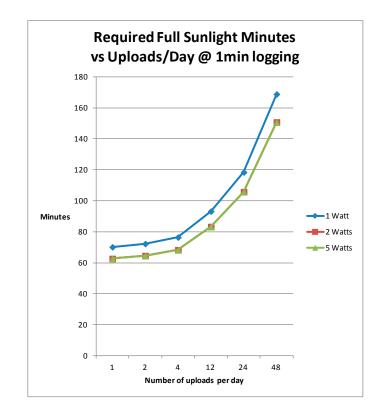
Flash Memory	300K
Channel Sampling Rate	max 1 min per channel

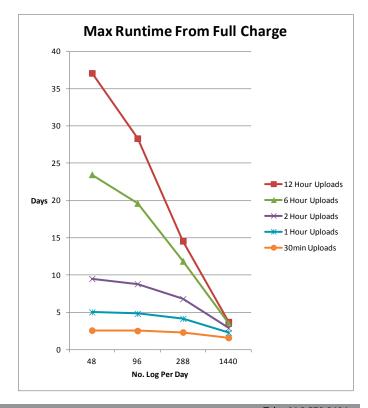
Power Supply	
Input Voltage Range	6-30V DC
Telecoms (-2G or -3G option)	
 2G / GPRS Frequencies 	900/1800/850/1900Mhz
 3G / HSDPA Frequencies 	850/900/1900/2100 Mhz
 Antenna Connector 	SMA
Physical	
 Size 	110mm x55mm x40mm
 Weight 	255g (9 oz)
	233g (3 02)
Temperature	-5 Deg C to 60 Deg C
	3 · ·

Temperature Probe (-TMP option)

Resolution

0.5 Deg C

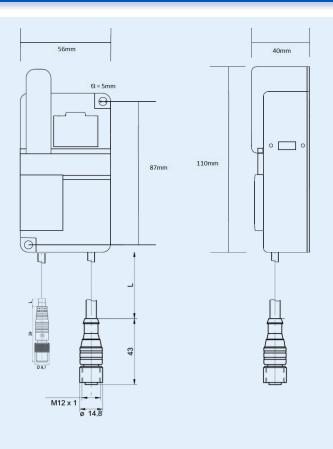




Lvl 3, 128 Broadway, Newmarket Auckland, New Zealand



Hardware Dimensions, Product Options & Connector Pin-outs



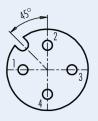
Note 1: Connector cable length L is typically 30cm for ENV and SDI12 type connectors and 1m, 6m, or 12m for TMP option (default 1m).

Outpost Power Connector (M8 Style) - Pinout

- 1 Power (V+)
- 3 N/C
- 4 Common (GND)

* Diagram of connector external view

Outpost "SDI12" Type Connector (M12 Style) - Pinout



1 15V Switched Power Output 2 Data

- 3 N/C
- 4 Common (GND)

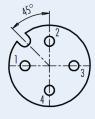
* Diagram of connector external view

Power Connector (M8 Style) for solar panel or DC Supply //O Connector #2: ENV or SDI12 Type (M12 Style)

Note 1: Connectors are labelled with a sensor connector position number only if the connector position is ambiguous

Note 2: Connectors size shown in this diagram are illustrative only - they are not drawn relative to the COBRA body size

Outpost "ENV" Type Connector (M12 Style) - Pinout



- 1 15V Switched Power Output
- 2 Pulse Counter Input
- 3 4-20mA Input
- 4 Common (GND)
- * Diagram of connector external view

www.outpostcentral.com

Tel: +64 9 579 8404 Fax: +64 9 579 1090

COBRA-aG-1ccc-1ccc-EA





COBRA-3G-1TMP-EA	COBRA 3G (HSDPA) logger with 1 x Temperature probe, External Antenna
COBRA-3G-2TMP-EA	COBRA 3G (HSDPA) logger with 2 x Temperature probes, External Antenna
COBRA-3G-1TMP-1ENV-EA	COBRA 3G (HSDPA) logger with 1 x Temp probe & 1 x ENV Conn (1 x Counter and 1 x 4-20mA channel), External Antenna
COBRA-3G-1TMP-1SDI12-EA	COBRA 3G (HSDPA) logger with 1 x Temperature probe & 1 x SDI12 Connector, External Antenna
COBRA-3G-1SDI12-EA	COBRA 3G (HSDPA) logger with 1 x SDI12 Connector, External Antenna
COBRA-3G-2SDI12-EA	COBRA 3G (HSDPA) logger with 2 x SDI12 Connectors, External Antenna
COBRA-3G-1ENV-EA	COBRA 3G (HSDPA) logger with 1 x ENV Connector (1 x Counter and 1 x 4-20mA channel), External Antenna
COBRA-3G-2ENV-EA	COBRA 3G (HSDPA) logger with 2 x ENV Connectors (each with 1 x Counter and 1 x 4-20mA channel), External Antenna
COBRA-3G-1ENV-1SDI12-EA	COBRA 3G (HSDPA) logger with 1 x ENV Conn (1 x Counter and 1 x 4-20mA channel) & 1 x SDI12 Conn, External Antenna

Outpost Antenna Accessories	
ACC-ANT-ENV-3DB-850	Accessory, Antenna for Environmental applications with 5m cable and mounting bracket, 3dB gain @ 850Mhz
ACC-ANT-ENV-3DB-900	Accessory, Antenna for Environmental applications with 5m cable and mounting bracket, 3dB gain @ 900Mhz

Outpost Connector Accessories

ACC-CONN-M12-6MM	Accessory, Connector for sensors & meters, M12 style, cable gland for max 6mm cable, internal screw assembly
ACC-CONN-M12-8MM	Accessory, Connector for sensors & meters, M12 style, cable gland for max 8mm cable, internal screw assembly
ACC-CONN-M8-6MM	Accessory, Connector for sensors & meters, M8 style, cable gland for max 6mm cable, internal screw assembly

Outpost Power Accessor	ies
ACC-SOLARKIT-5W	Accessory, Solar panel kit with 5W Solar panel, mounting bracket and power cable with ACC-CONN-M8-6MM connector