

# DeltaBlack

INDUSTRIAL IOT EDGE SOLUTION



**DeltaBlack is an easy to use Cellular 4G/3G/2G remote monitoring and logging solution for use in heavy duty industrial applications.**

An Industrial IoT edge device designed to work in the cloud with SCADA systems or via simple user friendly SMS commands.

With multiple I/O channels, wide operating supply voltage, DIN-rail mount and integrated RS232 modem, DeltaBlack is the ideal solution for a wide range of industrial applications.

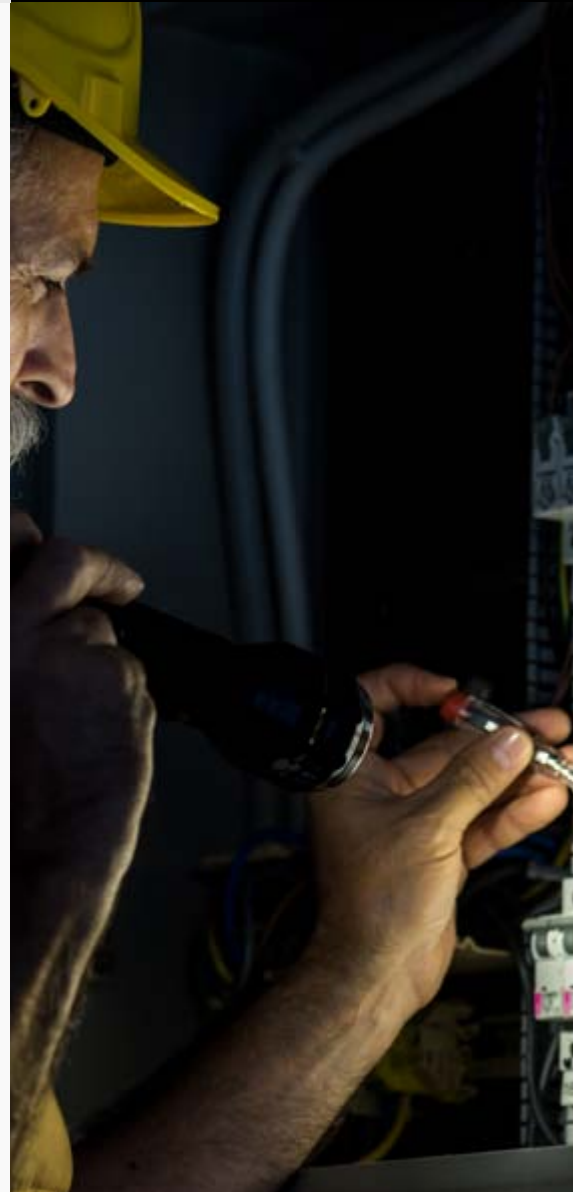
## INDUSTRIAL CELLULAR REMOTE MONITORING, ALARMING & LOGGING SOLUTION

### FEATURES

- Integrated 7-channel data logger including one relay output
- DIN-rail mounted including wall mount bracket
- Integrated 2G/3G/4G world wide wireless modem
- Customized SMS alerts
- LED indication for cellular signal quality and communication status
- Pre-configured for the most common sensor types
- Easy access to logged measurements via ETM's IoT Cloud Dashboard (EWO)
- Easy integration to PLC, SCADA and telemetry systems

### BENEFITS

- Low cost and low maintenance
- Immediate notification via WEB, SMS or email when a serious event occurs
- Reduces down time and minimizes damage on equipment
- No need for fixed communication
- Multiple pre-configured in/outputs for easy and fast installation
- Remote user friendly configuration via ETM's IoT Cloud Dashboard (EWO)



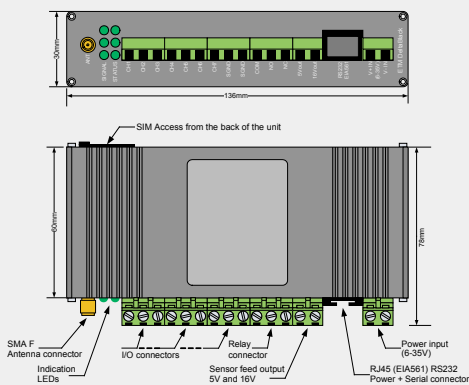
## APPLICATIONS

- Pump, fan, generator and motor
- Refrigeration and freezer systems
- Metering, HVAC, indoor climate
- Tank measurements
- Fire panels and intruder alarms
- Data centre monitoring
- Agriculture applications

## SENSOR TYPES

- Temperature & humidity
- Level
- Flow
- Pressure
- Pulse - meters, electrical, water, gas
- CT - Current transducers

## PHYSICAL DIMENSIONS



The DeltaBlack comes with pre-provision SIM-card. Connect the sensors, turn on the power and log into ETM's IoT Cloud Dashboard (EWO) to remotely manage DeltaBlack and get access to the measured data from anywhere.

## SPECIFICATIONS

Model	DeltaBlack	
Part no:	71610	71611
I/O Connections	5 digital I/O, 4 pulse counters (LL<0.5V, HL>2.5V or dry contact) 1 analogue 0-5 V input 1 analogue 0-10 V input 1 relay output (NO and NC) 5 and 16V stabilized and controlled output for sensor feed	1 digital I/O, 1 pulse counter (LL<0.5V, HL>2.5V or dry contact) 4 analogue 4-20 mA inputs 1 analogue 0-5 V input 1 analogue 0-10 V input 1 relay output (NO and NC) 5 and 16V stabilized and controlled output for sensor feed
Logging channels	max 7 simultaneous channels max logging frequency 1/min	
Cellular	2G , 3G and 4G LTE: 700/800/850/900/1700/1800/1900/2100/2600 MHz (band 1, 2, 3, 4, 5, 7, 8, 12, 18, 19, 20, 28) UMTS: 800/850/900/1700/1800/1900/2100 MHz (band 1, 2, 4, 5, 8, 9, 19) GPRS: 850/900/1800/1900 MHz	
Antenna	Cellular: Stub antenna or external SMA	
RS232	Via RJ45 connector	
Power supply	6-35V via terminal block 600 mA (rated), <150mA (transmitting), <35mA (idle)	
Operating temp.	-30°C to +70°C	
Weight	250 g	
Size	30 x 136 x 87 mm	
Casing	Aluminium	
Accessories	Temperature sensor, temp/humidity sensor, depth pressure sensor, variety of external cellular antennas	

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