

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 sensor channels, wide operating supply voltage, DIN-rail mount and USB-Micro connector, 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)



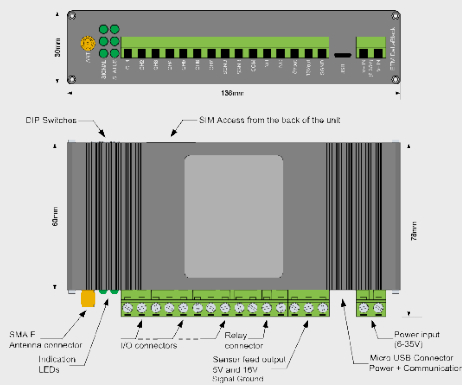
APPLICATIONS

- 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

COMMON SENSORS

- Temperature & humidity
- Level (E.g. water)
- 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:	71620
Channels Digital (DI) or Analogue (AI)	<p>CH1: Digital In (DI), Pulse In (PI)</p> <p>CH2: Pulse In (PI), 0-2.5 V (AI) or 4-20 mA (AI)</p> <p>CH3: Pulse In (PI), 0-2.5 V (AI) or 4-20 mA (AI)</p> <p>CH4: Pulse In (PI), 0-2.5 V (AI) or 4-20 mA (AI)</p> <p>CH5: Digital In (DI), 0-2.5 V (AI) or 4-20 mA (AI)</p> <p>CH6: Digital in (DI), 0-2.5 V (AI) or 0-30 V (AI)</p> <p>CH7: Digital in (DI), 0-2.5 V (AI) or 0-30 V (AI)</p>
	CH31: Relay (COM/NO/NC)
	Sensor Feed: 5V & 16V
Logging channels	<p>max 7 simultaneous channels</p> <p>max logging frequency 1/min</p>
Cellular	<p>2G , 3G and 4G</p> <p>LTE: 700/800/850/900/1700/1800/1900/2100/2600 MHz (band 1, 2, 3, 4, 5, 7, 8, 12, 18, 19, 20, 28)</p> <p>UMTS: 800/850/900/1700/1800/1900/2100 MHz (band 1, 2, 4, 5, 8, 9, 19)</p> <p>GPRS: 850/900/1800/1900 MHz</p>
Antenna	Cellular: Stub antenna or external SMA
Communication	Micro USB
Power supply	<p>6-35V via terminal block</p> <p>600 mA (rated), <150mA (transmitting), <35mA (idle)</p>
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