



Quick Start Guide



Welcome to your ETM Product

Get started: This guide helps with initial product setup. Need more? Find additional product information by simply scanning the QR code.



Support: For support, please visit www.etmiot.com or e-mail support@sigicom.com If urgent, please call us using the number below.

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INTRODUCTION

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

Common applications include:

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

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

PIN DESCRIPTION

Channels	Type (Multiple options per channel)	
CH1	Digital or Pulse	
CH2	Pulse or Analogue (4-20mA or 0-2,5V)	
CH3	Pulse or Analogue (4–20mA or 0–2,5V)	
CH4 Pulse or Analogue (4-20mA or 0-2,5V)		
CH5	CH5 Digital or Analogue (4-20mA or 0-2,5V)	
CH6	Digital or Analogue (0-30V or 0-2,5V)	
CH7	Digital or Analogue (0-30V or 0-2,5V)	
SGND	Signal Ground	
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Relay	COM (Common) NO (Normally Open) NC (Normally Closed)	
Sensor Feed	5V and 16V max 100mA	
Micro USB	Communication with PC	
V+ In V- In	(6-35VDC) Power Supply	

ACCESSORIES



Pressure Sensor



Temperature/Humidity Sensor



Power Supply



Screw mount antenna



Magnetic base antenna



USB to RJ45 Adapter

LED INDICATOR

Signal strength LEDs

1	Flashing On Off	RSSI < -105dBm or No SIM detected RSSI ≥ -105dBm (Poor signal) Not registered to mobile network
2	On Off	RSSI ≥ -89dBm (Fair signal) RSSI < -89dBm or not reg. to mobile network
3	On Off	RSSI ≥ -73dBm (Good signal) RSSI < -73dBm or not reg. to mobile network

Status LEDs

1	Slow Flash 2x Flash 3s Pause 3x Flash 3s Pause 4x Flash 3s Pause	Searching for network connection Active 2G network connection Active 3G network connection Active 4G network connection
2	On Off	Internet provider connection No Internet provider connection
3	On Off Rapid Flash	Recieving data (2s active) No data transmittion occurring

Getting Started

1. Connecting the hardware

CONNECTING SIM CARD

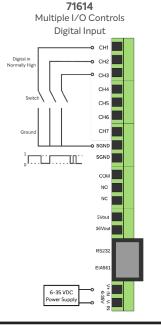


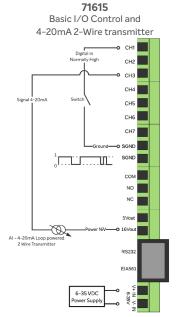




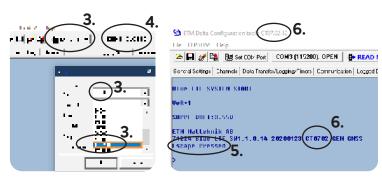
- 1. Connect the SIM Card
- To configure the device, connect a micro USB cable to a PC and follow the configuration guide below.
- To power up the device, connect a 6-35VDC power supply through the terminal. For configuration, the micro USB will provide enough power.

WIRING EXAMPLES



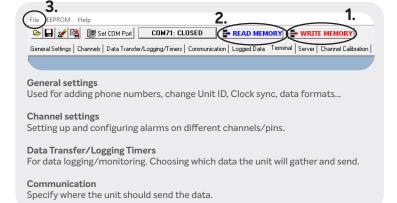


2. CONFIGURATION TOOL



- 1. Start the configuration tool. It can be downloaded from etmiot.com
- 2. Connect the unit to your computer.
- Go to the terminal tab, use "Set COM Port" to choose the right COM port (most likely not COM1) and set the baud rate to 115200.
- 4. Open the port by pressing "COM(X): CLOSED".
- 5. Click anywhere in the blue window until you see a flashing square. Proceed by pressing the "reset" button on the modem, then immediately press "Esc" on your keyboard until the message "Escape Pressed" shows up.
- 6. Make sure the that the firmware matches the configuration tool version like the picture above (6).
- The unit is now ready to be configured.

3. CONFIGURING THE UNIT



- 1. When done configuring the unit, press the red button "WRITE MEMORY" to upload the configuration to the unit.
- 2. To see the current configuration on the device, press "READ MEMORY" when having the unit connected to the computer to read it onto the configuration tool.
- 3. To save your configuration to use for future units press "File" in the top left corner, then "save" in the dropdown menu, and save it to an optional location.
- 4. Your unit is now ready to use.

4. EWO (ETM WEB OFFICE)



- · Log in using the provided login credentials
- Manage your account, units and organisation in the settings.
- Under settings > configuration choose which data you want to be presented
- Enjoy your ETM product

To access the ETM IoT Cloud Dashboard, please visit the website or scan the QR Code. www.etmweboffice.com/EWO/pages/login.jsp



ETM PRODUCTS



DeltaBlue
Outdoor and
battery-powered
remote monitoring,
alarming & logging
solution



DeltaBlack Industrial cellular remote monitoring, alarming & logging

solution





770-PROCellular Network
Monitoring tool
Cat M1/NB-IoT
2G/3G/4G