

# Welcome to your ETM Product

## Quick Start Guide



**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](http://www.etmiot.com) or e-mail [support@sigicom.com](mailto:support@sigicom.com). If urgent, please call us using the number below.

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## INTRODUCTION

DeltaBlue is a battery-powered, rugged device used for measuring and control in remote areas or installations without access to mains power or a fixed communication line.

### Common applications include:

- Well and Pit monitoring
- Tank measurements
- Water and sewer treatment
- Agriculture applications
- Remote alarms
- Lake water level monitoring

## FEATURES

- Up to 3 years battery life time\* (Depending on settings)
- Integrated 7-channel data logger
- Integrated 2G/3G/4G wireless modem
- Integrated GPS, temperature, humidity and accelerometer
- Support for many common sensor types with 3.6V, 5V & 16V power feed.
- Remote access to logged data via ETM's IoT Cloud Dashboard (EWO)
- Integration to SCADA and telemetry systems

## PIN DESCRIPTION

| Channel  | Color  | Dip Switch OFF | Dip Switch ON                    |
|----------|--------|----------------|----------------------------------|
| 1 (I/O)  | Brown  | DI, Pulse      | DI, Pulse Strong Pullup          |
| 2 (I/O)  | Blue   | DI, AI 0-2.5V  | AI 4-20mA                        |
| 3 (I/O)  | Yellow | DI, AI 0-2.5V  | AI 4-20mA                        |
| 4 (I/O)  | Green  | DI, AI 0-2.5V  | AI 4-20mA                        |
| 5 (I/O)  | Red    | DI, AI 0-2.5V  | AI 4-20mA                        |
| 6 (I/O)  | Black  | AI 0-5VDC      | AI 0-10VDC                       |
| 7 (I2C)  | Yellow | Pt1000         | Pt100                            |
| 7 (I2C)  | Yellow | Pt100          | Pt1000                           |
| 7 (Feed) | Orange | 1. 5V Out      | 2. 16V Out 3. 3.6V Out (Battery) |
| 8 (GND)  | Gray   |                | Signal Ground                    |

## ACCESSORIES



## LED INDICATOR

### Green status LEDs

| Network | IP status   | Data Com    | LED Status        | Description                      |
|---------|-------------|-------------|-------------------|----------------------------------|
| 1       | 2           | 3           | Slow Flash        | Searching for network connection |
|         |             |             | 2x Flash 3s Pause | Active 2G network connection     |
|         |             |             | 3x Flash 3s Pause | Active 3G network connection     |
|         |             |             | 4x Flash 3s Pause | Active 4G network connection     |
|         | On          | On          | On                | Internet provider connection     |
|         | Off         | Off         | Off               | No Internet provider connection  |
|         | On          | On          | On                | Receiving data (2s active)       |
|         | Off         | Off         | Off               | No data transmission occurring   |
|         | Rapid Flash | Rapid Flash | Rapid Flash       | Sending Data                     |

### Yellow signal strength LEDs

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

# Getting Started

## 1. Connecting the hardware

### CONNECTING SIM CARD

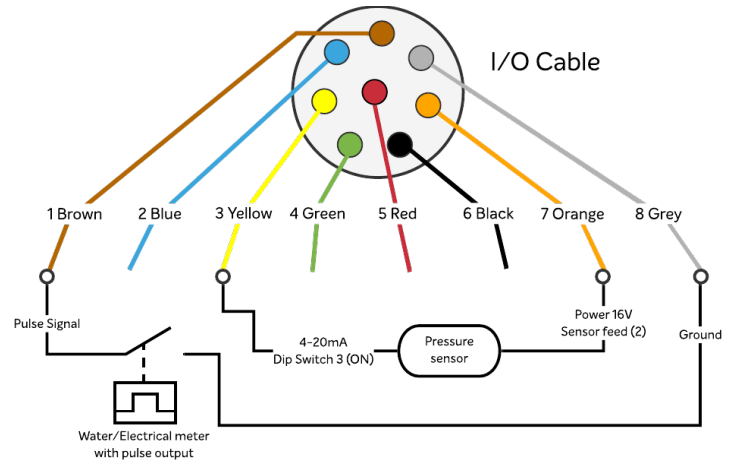


### BATTERY AND COMMUNICATION

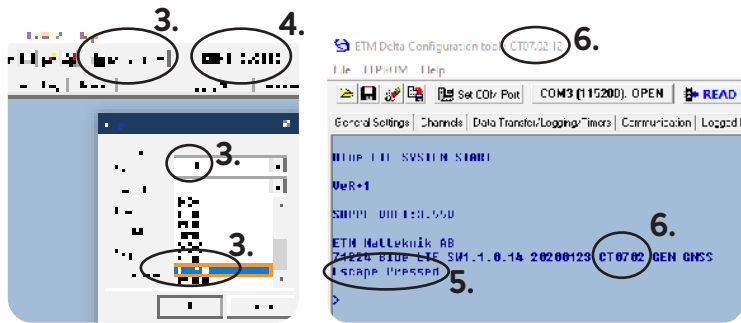


## WIRING EXAMPLES

- Water/Electrical meter
- Pressure Sensor

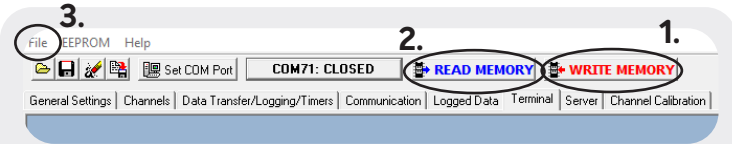


## 2. CONFIGURATION TOOL



1. Start the configuration tool
2. Connect the unit to your computer
3. 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 that the the firmware matches the configuration tool version like the picture above (6)
7. The unit is now ready to be configured.

## 3. CONFIGURING THE UNIT



- General settings**  
Used for adding phone numbers, change Unit ID, Clock sync, data formats...
- Channel settings**  
Setting up and configuring alarms on different channels/pins.
- Data Transfer/Logging Timers**  
For data logging/monitoring. Choosing which data the unit will gather and send.
- Communication**  
Specify where the unit should send the data.

1. When done configuring the unit, press the red button "WRITE MEMORY" to upload the configuration to the unit.
2. To see what configuration is already on the unit, 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](http://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



**ETM-Purple**  
Intelligent cellular 2G/3G/4G with "last gasp"



**ETM-770**  
Cellular Network Monitoring tool Cat M1/NB-IoT 2G/3G/4G