



etmpacific DeltaBlue Mini Wireless Data Logger User Guide

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etmpacific DeltaBlue Mini Wireless Data Logger



INTRODUCTION

DeltaBlue Mini & DeltaBlue Pro are battery-powered, rugged devices used for measuring and control in remote areas or installations without access to mains power or a fixed communication line.

TYPICAL APPLICATIONS

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

FEATURES

- Up to 3 years battery lifetime* (Depending on settings)
- Integrated 6-channel data logger
- Integrated 2G/3G/4G wireless modem
- Integrated GPS, temperature, humidity, and accelerometer
- Pre-configured for the most common sensor types with 3.6V, 5V & 16V power feeds.
- Easy access to logged measurements via UTM's IoT Cloud Dashboard (IoTconx)
- Easy integration into SCADA and telemetry systems

ACCESSORIES



External
Antenna



Pressure
Sensor



Replacement
battery



Screw mount
antenna



Temperature/
Humidity
Sensor



Stainless steel
mounting plate

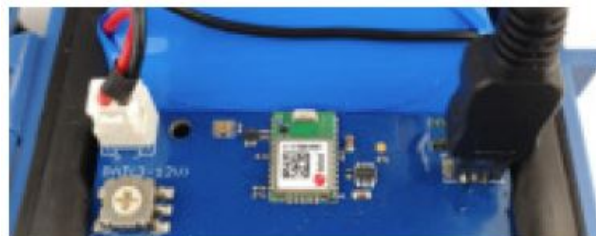
Getting Started

CONNECTING THE HARDWARE

CONNECTING SIM CARD

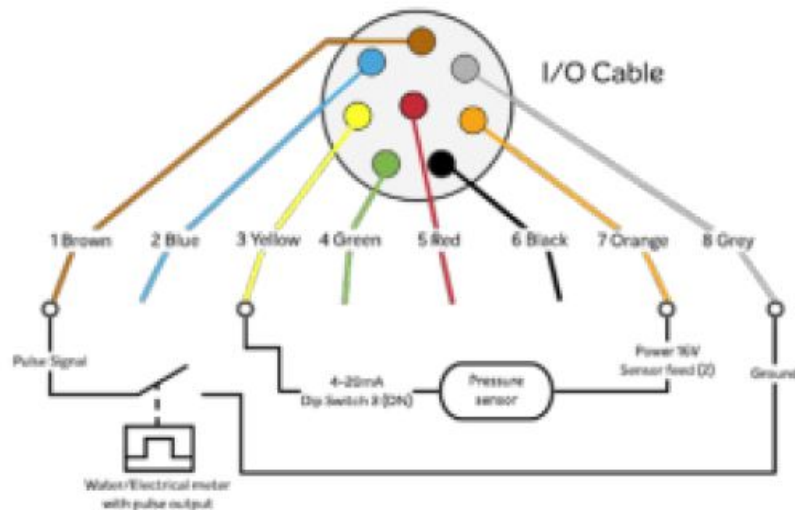


BATTERY AND COMMUNICATION



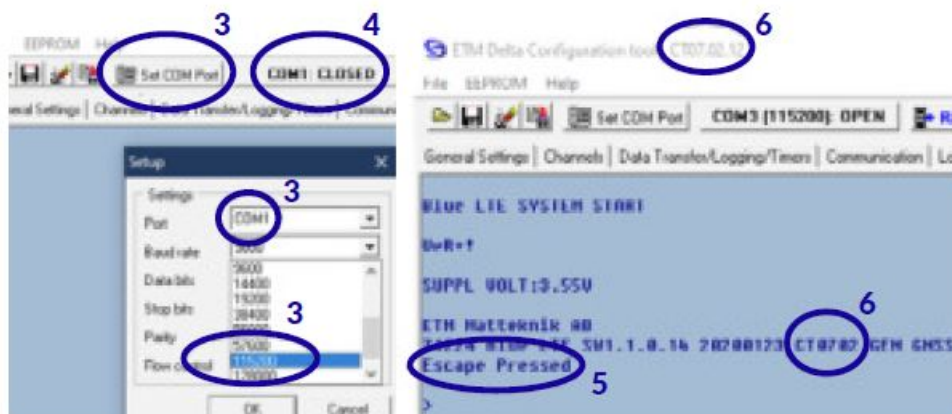
WIRING EXAMPLES

- Water/Electrical meter
- Pressure Sensor



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 the that the firmware matches the configuration tool version like the picture above (6)
7. The unit is now ready to be configured.



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 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.



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.

LED INDICATOR

Green status LEDs		
1 Network	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 IP status	On Off	Internet provider connection No Internet provider connection
3 Data Com	On Off Rapid Flash	Receiving data (2s active) No data transmission occurring Sending Data
Yellow signal strength LEDs		
1 Poor	Flashing On Of	RSSI < -105dBm or No SIM detected RSSI ≥ -105dBm (Poor signal) Not registered to mobile network
2 Fair	Flashing On Of	No SIM detected RSSI ≥ -89dBm (Fair signal) RSSI < -89dBm or not reg. to mobile network
3 Good	Flashing On Of	No SIM detected RSSI ≥ -73dBm (Good signal) RSSI < -73dBm or not reg. to mobile network

PIN DESCRIPTION

Channel	Colour	Dip Switch OFF	Dip Switch ON
Ch1 IO	Brown	DI, Pulse	DI, Pulse Strong Pullup
Ch2 IO	Blue	DI,AI,0-2.5V	AI 4-20mA
Ch3 IO	Yellow	DI,AI,0-2.5V	AI 4-20mA
Ch4 IO	Green	DI,AI,0-2.5V	AI 4-20mA
Ch5 IO	Red	DI,AI,0-2.5V	AI 4-20mA
Ch6 IO	Black	AI 0-5VDC	AI 0-10VDC
Ch7 Feed	Orange	<ul style="list-style-type: none"> • 5V Out • 16V Out 	3.6V Out (Battery)
Ch8 GND	Grey	Signal Ground	


- DI-Digital Input
- AI-Analogue Input

MORE ABOUT IoTconx:

IoTConx is ETM's cloud-based platform designed for the capture, storage, manipulation, and display of the data resulting from Delta Blue sensors or the data feed from your device being monitored. Logged data can be downloaded in various formats with option to link with 3rd Party platforms via API. IoTConx can be customized to meet specific customer user interface requirements and can be deployed on private server instances.




IoT PRODUCT RANGE

 <p>Delta Blue Delta Black</p>		 <p>Environmental Smart metering Solar Geotech</p>
<p>Data Loggers</p>	<p>Modems & Routers</p>	<p>Integrated Solutions</p>
		
<p>Antennas</p>	<p>Cellular Signal Boosters</p>	<p>SIM Data Plans</p>

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- EQSG-DeltaBluePro&Mini/a/v.1.01

Documents / Resources

	<p>etmpacific DeltaBlue Mini Wireless Data Logger [pdf] User Guide DeltaBlue Mini, DeltaBlue Mini Wireless Data Logger, Wireless Data Logger, Data Logger, Logger</p>
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References

- [ETM Pacific | Specialist in Cellular and LoRa Connectivity](#)