

# Model ETM9660

## GSM/GPRS Alarm & Control Terminal



With Dual-Band GSM/GPRS an internal TCP/IP stack, 21 I/O's, programmable SMS messaging and logging capabilities the ETM9660 is the ideal alarm, control or data gathering terminal for industrial applications. The unit comes complete in a DIN Rail mount housing with screw terminals for power and I/O connections, RS232 serial interface is via an RJ45 connector.

### Typical Applications Include;

- ❑ Pulse logging/data transmission
- ❑ Temperature logging/data transmission (2 x PT1000 sensors)
- ❑ Analogue input logging/data transmission (5 x 0-2.5V)
- ❑ Environmental monitoring, alarm or control
- ❑ Monitoring, alarm or control of freezers, cold rooms, computer rooms, or other refrigeration systems
- ❑ Switching pumps, automated gates, lighting systems or irrigation controls
- ❑ Security

### ETM9660 Features Include;

- ❑ Dual-Band GSM/GPRS Connectivity
- ❑ GPRS Class 10
- ❑ TCP/IP Stack
- ❑ Logging, 3500 data points (1 channel)
- ❑ RJ45 RS232 serial port
- ❑ 7 x user configurable I/O's refer specifications on next page
- ❑ 6 x DI's for pulse counting (plus I/O1)
- ❑ 6 x Open Collector outputs for relay control
- ❑ 2 x PT1000 temperature inputs
- ❑ FME M antenna connector
- ❑ 6 V to 35 V power input
- ❑ Sleep Mode for reduced power consumption
- ❑ ETM configuration tool
- ❑ DIN Rail mounting

## General Features

- Siemens MC39i Module Inside
- Dual-Band GSM/GPRS 900/1800 MHz
- GPRS multi-slot class 10
- Compliant to GSM phase 2/2+
- Output Power:
  - Class 4 (2W) for EGSM900
  - Class 1 (1W) for GSM1800
- Control via AT commands
- SIM Application Toolkit (release 99)

## Specification for GPRS

- GPRS class 10: max. 85.6 kbps (DL)
- Mobile station class B
- PBCCH support
- Coding schemes CS 1-4

## Specification for CSD

- GSM data rate 14.4 kbps, V.110
- Non-transparent mode
- USSD support

## Specification for SMS

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

## Power Requirements

- Supply Voltage range +6VDC to +35VDC
- Average Power Consumption 300mA at 12VDC

## Mechanical Specifications

- Dimensions 115mm x 90mm x 58mm
- Weight: 170g

## Operating Environment

- Operating Temp. Range: -20°C to +55°C

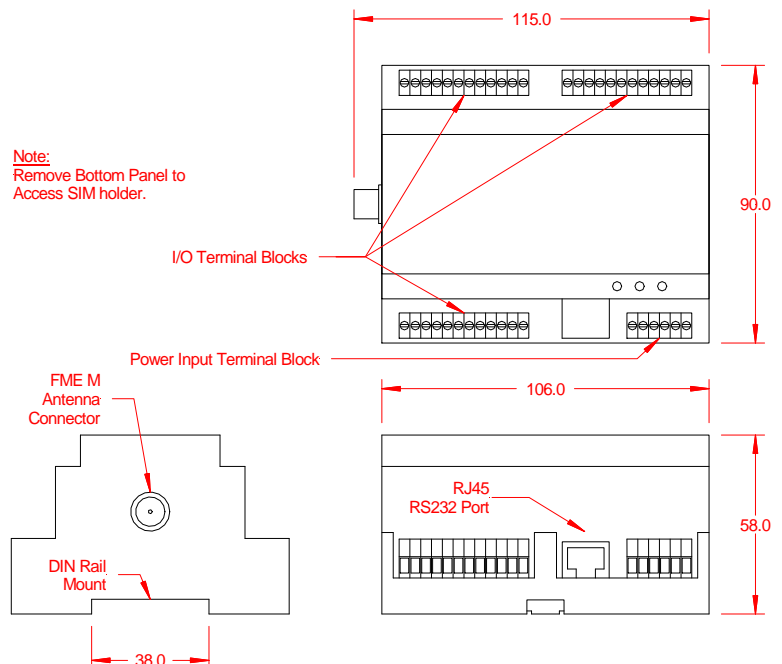
## I/O's

- I/O 1 configurable as digital or pulse
  - Digital Input: LL<0.5V, HL>2.5V, Max Input  $\pm 50$ VDC
  - Digital Output: LL0V/0.1mA, HL3V/0.1mA
- Pulse Input: LL<0.5V, HL>2.5V, Max Input  $\pm 50$ VDC

- I/O 2 configurable as digital
  - Digital Input: LL<0.5V, HL>2.5V, Max Input  $\pm 50$ VDC
  - Digital Output: LL0V/0.1mA, HL3V/0.1mA
- I/O's 3 thru 7 configurable as digital or analogue
  - Analogue Input: 0-2.5VDC
  - Digital Input: LL<0.5V, HL>2.5V, Max Input  $\pm 50$ VDC
  - Digital Output: LL0V/0.1mA, HL3V/0.1mA
- I/O's 8 thru 13 digital inputs for S0 pulse count
  - Pulse Input: LL<0.5V, HL>2.5V, Max Input  $\pm 50$ VDC
- I/O's 14 thru 15 temperature inputs
  - PT1000
- I/O's 16 thru 21 open collector outputs for relay control
  - Open Collector: LL0V/0.6A, [HL6-35V/0.6A@25V](#)

## Configuration Tool

- Configure I/O's 1 thru 7
- Set 2 x IP addresses for transmitting data (UDP or TCP)
- Set logging intervals and send intervals for log data
- Phone book, 5 mobile phone numbers
- Program SMS alarm messages
- Variable RS232 serial port baud rate: 2400 bps to 115200 bps
- SIM PIN support
- Terminal Window



ETM Mattek AB  
Ekbacksvägen 32  
SE-168 69 Bromma  
Sweden  
Tel: +46 (0)8 25 28 75  
Fax: +46 (0)8 80 11 10  
Email: [etm@etm.se](mailto:etm@etm.se)  
Web: [www.etm.se](http://www.etm.se)

ETM Communications AB  
Nioörtsvägen 28 A  
SE-126 32 Hägersten  
Sweden  
Tel: +46 (0)8 5490 2070  
Fax: +46 (0)8 5490 2060  
Email: [info@etmc.se](mailto:info@etmc.se)  
Web: [www.etmc.se](http://www.etmc.se)

ETM Pacific Pty Ltd  
LGF, 275 Alfred Street  
North Sydney NSW 2060  
Australia  
Tel: +61 (0)2 9956 7377  
Fax: +61 (0)2 9956 5791  
Email: [info@etmpacific.com.au](mailto:info@etmpacific.com.au)  
Web: [www.etmpacific.com.au](http://www.etmpacific.com.au)

