

# M300M-T-E-L

Data logger with remote monitoring and cloud support for Ethernet

## - Features

- High Performance Cortex M7 32-bit ARM
- Data Logger on SD card
- Real-time data monitoring
- Internal webpage for online monitoring
- Protocols: Modbus RTU & TCP-IP & FTP
- 8 Analog inputs (4-20 mA, 0-10 V)
- 6 Digital inputs
- 2 Digital outputs
- Data transmission for Ethernet
- Mounting: Din-rail



TCP-IP  
Protocol

Modbus  
RTU



RJ-45



## - Introduction

M300M-T-E-L is a data logger that can meet the growing demands of data acquisition, analysis in real time and integration with IT systems existing in automation and system/process monitoring. In line with the new productivity and communication models of Industry 4.0 and Internet of Things, it is characterized by 4 integrated communication ports (1 Ethernet, 1 RS485 slave, 1 RS485 master), 16 integrated I/O channels (6DI, 8AI, 2DO), alarm management functions and support of FTP, TCP, Modbus RTU communication protocols.

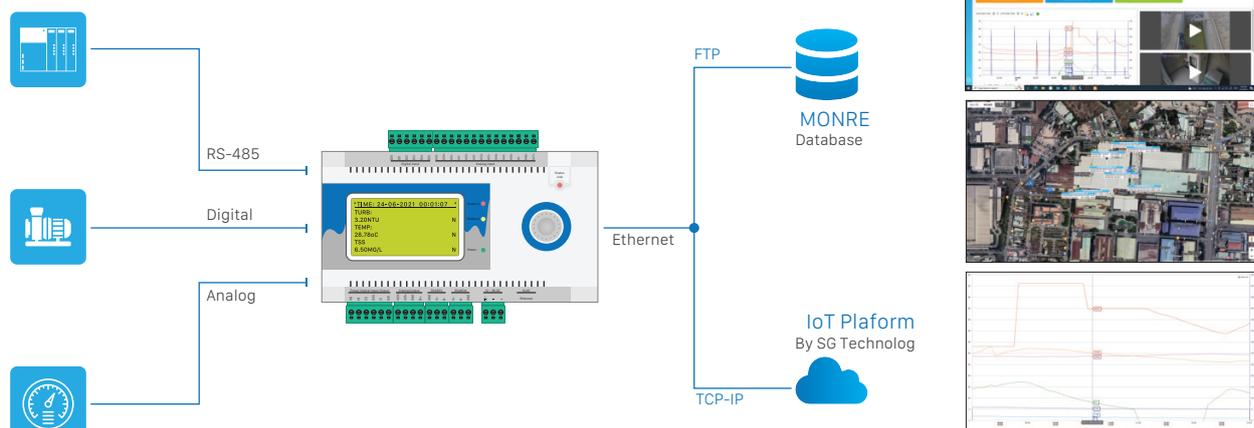
M300M-T-E-L offers maximum opening towards the outside and third parties (PLC, HMI) thanks to the technology standards it complies with (ModBUS RTU Master/Slave, ModBUS TCP-IP Server/Client).

This unit supports an 256MB Flash memory, a slot for microSD expandable up to 8GB and multi-tasking real-time operating system. The combined use of these dataloggers with the IoT Platform solution proposed by SGTEC completes the possibility of data management through responsive webpages with customisable dashboards and widgets.

## - Firmware

Data collection	Data logging
<ul style="list-style-type: none"> <li>• Collect data from Analog and Digital inputs</li> <li>• Collect data from RS485 port</li> <li>• Acts as a Master device and collects data from one or more other Modbus RTU devices</li> </ul>	<ul style="list-style-type: none"> <li>• Flash memory up to 256Mb</li> <li>• Features automation, control and remote monitoring</li> <li>• Function to get data from memory cards via USB port</li> </ul>
Data communication	Configure Settings
<ul style="list-style-type: none"> <li>• Data transmission over Ethernet (RJ-45)</li> <li>• Protocols: FTP, TCP, Modbus RTU</li> </ul>	<ul style="list-style-type: none"> <li>• By software via USB Serial Port (MEES Config by SG Technolog)</li> </ul>

## - Application Example



### - Specifications

Control system	
MCU	Cortex M7 32-bit ARM
Power Supply	12...24 VDC
Protection Degree	IP20
USB port	Support 1 x Micro B
Memory	Chip Flash 256MB
Sd card	Support up to 8Gb
Communication	
Protocols	FTP, TCP, Modbus RTU
Interfaces	<ul style="list-style-type: none"> <li>Support 2 x RS-485 (1 x RS-485 master: connect with 5 slave &amp; 1 x RJ-485 slave: send data)</li> <li>Support 1 x RJ-45: Transmissions data to the Cloud</li> </ul>
Analog input	
Channels	8
Type	Voltage: 0...10 V Current: 0...20 mA, 4...20 mA
Resolution	24-bit
Digital/ Pulse input	
Channels	6
Digital output	
Channels	2
General	
Dimensions (LxWxH)	177mm x 97mm x 55mm
Operating Temp.	-5...45°C
Mounting	Din-rail

### - Dimensions

- Drawings and dimensions (all dimensions in millimeters)

