

# TLM258

## Industrial Remote Telemetry Unit Data Logger

### KEY FEATURES

- Secure industrial communication protocols, 16/32 CRC
- TCP, UDP, Modbus support, electric meter reading via IEC 62056-21
- Easy interface to external systems via Ethernet, USB, RS232 and RS485 ports
- Real time multitasking operating system
- On board memory, optional µSD card
- Configurable data archiving, min/max, average values
- Hierarchical alarm structure. Alarm and event logging
- Sensor bus allows flexible interface to smart RFID readers, temperature, humidity sensors, smoke and flooding detectors
- RFID based access control, remote dynamic authorization, security control
- Isolated analog inputs
- Isolated AC/DC digital inputs with configurable filters
- Isolated relay outputs
- Real Time Clock with Lithium battery backup, remote time sync
- Internet based remote access, configuration, monitoring, diagnostics and firmware update
- Easy configuration via built-in webserver
- Local configuration and firmware update via USB flash sticks
- Stainless, slim 1U rackmount housing
- Industrial operating temperature and voltage range

TLM258 is an advanced, high accuracy, industrial, multi purpose telemetry data logger specially designed to meet stringent requirements of precision measurement, data acquisition, validation and archiving applications.

It defines a new standard for ease of use while delivering unmatched performance and flexibility.

TLM258 incorporates wide range of features which not only meets local measurement and archiving requirements, but also provides a complete solution for remote monitoring and management of systems distributed over large geographical areas.

### Smart Sensor Interface

TLM258, in addition to performing measurements and controls related to external systems via its conventional inputs and outputs, it can also interface to various number and type of external smart sensors via its smart sensor interface to collect information and perform control actions on subject system. Examples include temperature, humidity, dew point measurements, flooding and smoke detection, RFID based security management in an environmental monitoring system.



### Access via the Internet

TLM258 has extensive features for Internet based remote access. All configuration, reporting, monitoring and diagnostics features are also available remotely via the designated communication channels, to form a modern supervisory monitoring and management system which requires very low number of visits to remote stations and fewer personnel for operations and maintenance.



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Data Logger



## BASIC SPECIFICATIONS

### GENERAL

Operation voltage	36..72VDC
Operating ambient temperature	-25°C..+60°C standard, -30°C..+70°C optional
Relative humidity	%0..%95
Dimensions	1U x 115D mm
Weight	3.7 lbs.
Protection	IP54 aluminum
Display	32 front panel LED
Memory	2 Mbyte + 16 Mbit standard, optional µSD
Internal buzzer	2300Hz, 85 dB

### CERTIFICATES AND APPROVALS

CE	IEC 61000-4-2 (ESD), IEC 61000-4-3 (EM), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-6 (Conducted)
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### COMMUNICATIONS

Ethernet	10/100, UDP, TCP client/server
USB	Host, MSC
Serial Port	2 x RS-232, 2 x RS-485 150...115200 bps, 8-9 bit, 1-2 stop bit, none/odd/even parity
RS-485 (IEC62056-21) Isolation	2500VRMS

### ANALOG INPUTS

Channels	4 standard
Resolution	12 bit
Isolation	2500VRMS
Standard Inputs	0-60VDC (other options at request)
Impedance	30kΩ

### DIGITAL INPUTS

Channels	6 standard dry contact
Standard Inputs	< 50Ω closed, > 20kΩ open
Isolation	3750VRMS
Impedance	1kΩ
Wetting Current	1mA

### DIGITAL OUTPUTS

Channels	4 standard
Type	Form-A, 5A/250VAC, 30VDC

### OPTIONAL SMART SENSORS

#### STH258 Temperature & Humidity

Temperature Mode	±0.5°C @ 25°C, ±1.0°C max (-10°C..85°C), ±3.0°C max (-55°C..125°C)
RH & Temperature Mode	RH: ±2% @ 25°C (20%RH..80%RH), T: ±0.3°C @ 25°C, ±1.6°C max (-40°C..+125°C)
RH Sensor Temperature Coefficient	-0.15 %RH/°C (0°C..80°C)
RH Sensor Hysteresis	±1 %RH
RH Long Term Drift	0.5 %RH/y

#### CR258 RFID Card Reader

Card Type	MIFARE
Digital Inputs	2 Channel, dry reed contacts,< 1kΩ closed, > 100kΩ open
Buzzer	4kHz, 70dB

#### Smoke Detector

Type	SS258
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#### Water Flooding Detector

Type	SWF258
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### Common Specifications

Operating Voltage	7..15VDC
Operating Ambient Temperature	-25°C..+60°C standard, -30°C..+70°C optional
Communications	RS485, Modbus RTU, 19200 bps
Modbus Slave ID	Optional DIP switch