

# Digital Indicator MI-2603

Low Cost

- **4-digit 0.56" (14.2 mm) red sunlight readable display**
- **Three input model products:**
  - Thermocouple with Programmable TC type (J,K,T,E,B,R,S,N,C)
  - RTD with Programmable TC type (PT-100 DIN or JIS)
  - Linear with programmable scale (mV or mA)
- **Main and first alarm set-point outputs (standard)**
  - 8 different alarm functions
  - Optional to four set-point alarm outputs
- **Programmable/selectable On/Off, P or PD control on the first/main output**
- **Optional: retransmission or RS485 communication (MODBUS RTU)**
- **Power supply: 90-264V AC, 50/60HZ or 24V DC**



The MI2603 Analog Panel Meter offer many features and performance capabilities to suit a wide range of industrial applications. Available in three different models to handle various analog inputs including: Thermocouples (all common types and standard, total of 9 types), DC Voltage/Current and RTD sensors (both standards DIN and JIS).

The optional additions allow to order the meter for a wide range of applications and operator needs. The meters have four 7-segment digital 0.56" LED display.

The meters have up to four (two are standard, 3 and 4 are optional) set point outputs with implemented FORM-A relays (5/7A) or open collector logic outputs (SSR driver) physical output.

The set point alarms can be configured to suit a variety of control and alarm requirements (up to 8 alarm types/modes).

In addition the Main/first output can be assigned to basic process control with a P, PD (Proportional or Proportional/Derivative) algorithm.

RS485, Modbus RTU communication is also available as an option.

Readout values and set point alarm values can be controlled through the communication.

If the communication option is installed it is possible to configure the meter using a free of charge Windows® based program. The configuration data can be saved to a file for later recall.

A DC power supply is standard for all models for sensor excitation (24VDC).

Once the meters have been initially configured, the parameter may be locked out from further modification in its entirety or only the set point values can be made accessible.

Refer to "How to order" for the details on the specific models.

# Technical Specifications

**Input:** Thermocouple: J.K.T.E.B.R.S.N.C  
 RTD: DIN PT-100; JIS PT-100  
 Linear: 4~20mA; 0~50mV; 1~5V; 0~10V...

**Accuracy:** T/C $\pm$ 1°C; RTD $\pm$ 0.2°C; Linear $\pm$ 3 $\mu$ V

**Samplin Time:** 0.25 sec.

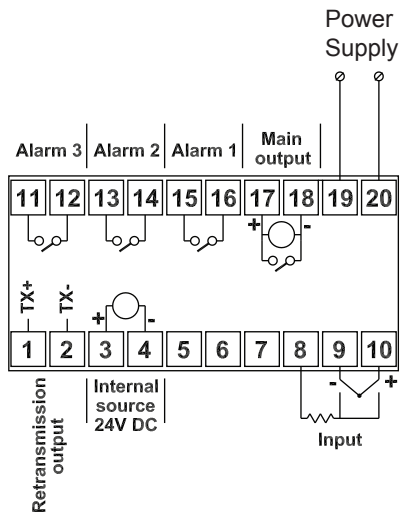
**Control:** P Control: Proportional Band: 0.0~300.0% F.S  
 PD Control: Proportional Band: 0.0~300.0% F.S  
 Derivative Time: 0~900 sec.  
 ON / OFF Control: Hysteresis 0~2000

**Cycle Time (0~100)** Relay 15 sec.  
 Current Output (SSR) 1 sec.  
 Continuous Current (Voltage): 0 sec.

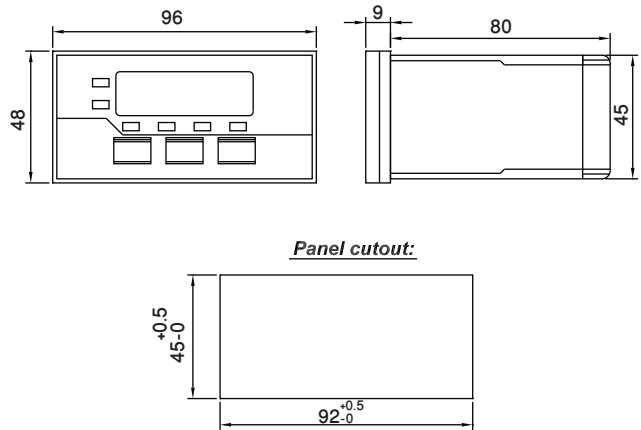
**Output:** Relay Contact Output: 10A/240 VAC (Resistive load)  
 Pulsed Voltage Output to Drive SSR: DC 0/24V  
 (Resistive 250 $\Omega$  min.)  
 Current Output: 4~20mA; (Resistive 600 $\Omega$  max.)  
 Continuous Voltage Output: 0~50mV; 1~5V; 0~10V...  
 (Resistive 600  $\Omega$  min.)

**General:** Rated Voltage: AC 90~264V 50/60Hz; DC 24V  
 Ambient Temperature: 0~50°C  
 Ambient Humidity: 0~90%  
 Consumption: Less than 3VA

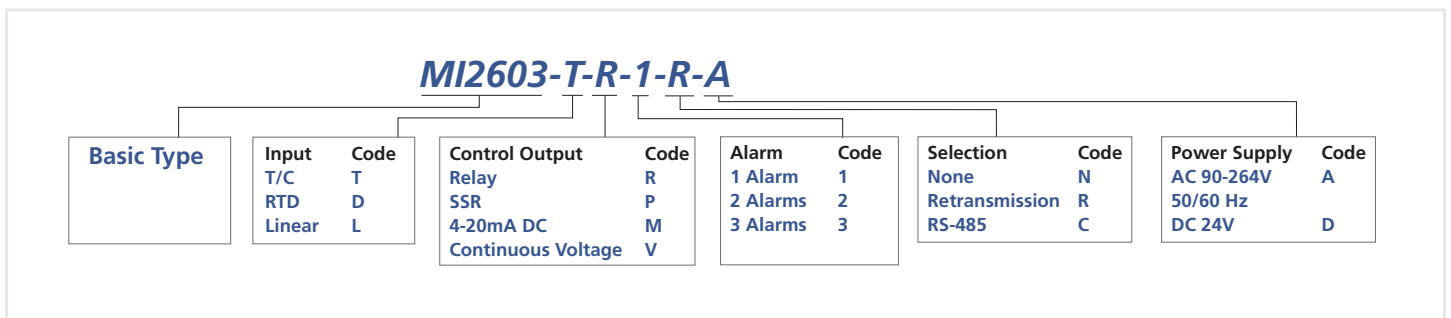
## CONNECTION DIAGRAM



## DIMENSIONS (mm)



## How to order:



**Note:**

Linear type can be supplied with 24V DC external power supply to connect 2 wire transmitter.