TR-202 Current Converter to Relay

Characteristics

- **Level Control in Industrial Process**
- **3 Digits Display**
  - Easy Visualization of the Process Variable in %
- **Easy configuration with 3 Push Bottons**
  - Adjust the Setpoint for 2 Independent Level
- **Active and Passive Input to Expand more Outputs.**
- **Microporcessor Technology.**
  - Accuracy and Stability
  - Monitor the Input signal providing protection and a Fail Safe
- **Class Protection.**
  - IP40 (IEC60529)
- **Protection.**
  Polarity Inversion
  Power Surges

Descrição

The TR-202 is a compact device used to convert 4...20mA signal (2 wire) of the transmitters in Relay (SPDT).
Can be easily configured to control or detection level (Min and Max). The set point adjustment allows two independent outputs are set in a range from 0 to 100%. Both configurations as the process variable are displayed on 3 digit display.

The TR-202 has Fail Safe system providing more security against power failure, wire break , short circuit, overflow and others.

From some applications is often used as an electronic pressure switch for alarm minimum and maximum pressure point, for actuation and automatic shutdown of pumps in control level and among other applications.

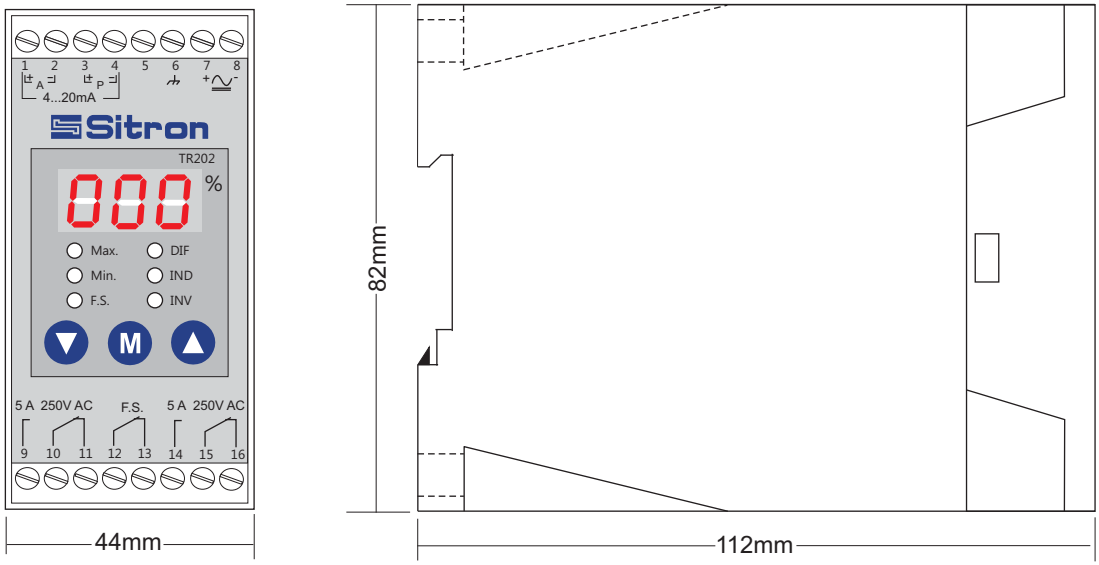
The TR-202 is cost-effective, and can be a great option for replace complex controllers, as well as applied in all the line of Sitron's transmitters .

Specification

TR-202 Current Coverter to Relay

Application:	4...20mA Current Converter to Relay (SPDT)
Operating Voltage:	24Vdc or AC: 100~270Vac
Consumption:	>90mA / analog input short circuit >120mA
Output Signal:	4...20mA (2 wires) analog Active or Passive
Accuracy:	1% / 0.16mA
Input Impedance:	250 ohms
Protection:	Polarity inversion, Power surges
Output:	2x SPDT 5A 250V
Adjustment:	3x Push-Bottons
Visualization:	3 Digits 7 Segments Display
Indication (LED):	Green: Output State Red: Off-set Yellow: Fail Safe
Output State:	Logic inversion via software
Fail Condition:	Wire break or short circuit on the input analog signal / Low Signal <3mA / High Signal> 22mA
Operating Temperature:	-10...60°C
Enclosure:	ABS (Resistant Thermoplastic)
Fixation:	DIN rail 35mm or Screws
Class Protection:	IP40

Dimension



Electrical Diagram

Pins:

1
2 } Active Input

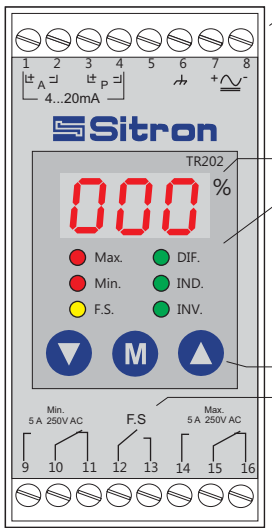
3
4 } Passive Input

6
7
8 } Power Supply

9
10
11 } Level Min. Relay

12
13 } Fail Safe Relay

14
15
16 } Max Level Relay



Terminal connection

3 digits Display

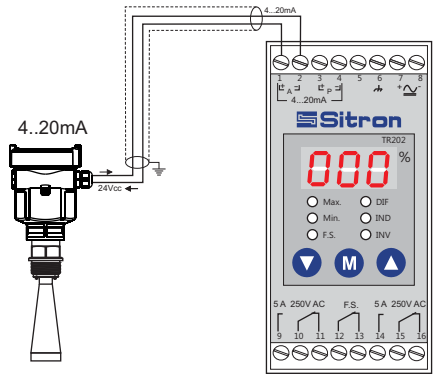
Leds: Max. Max Level
Min. Level Min.
F.S. Fail Safe
DIF. Differential (Level Control)
IND. Indenpendent (control)
INV. Inversion of Logic

Setup

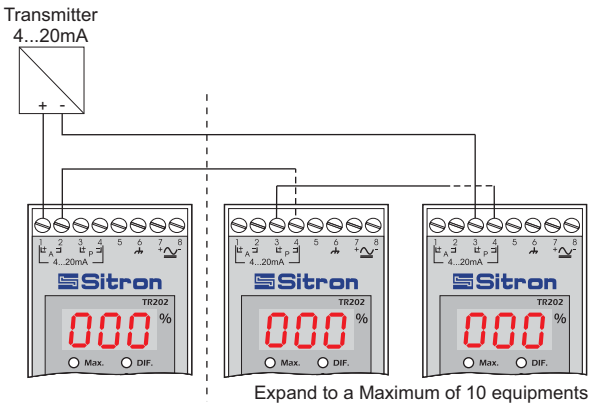
Output

Input

Standard Connection with 4...20mA.



Passive Connection.
- Different level of operation using only one Sensor.

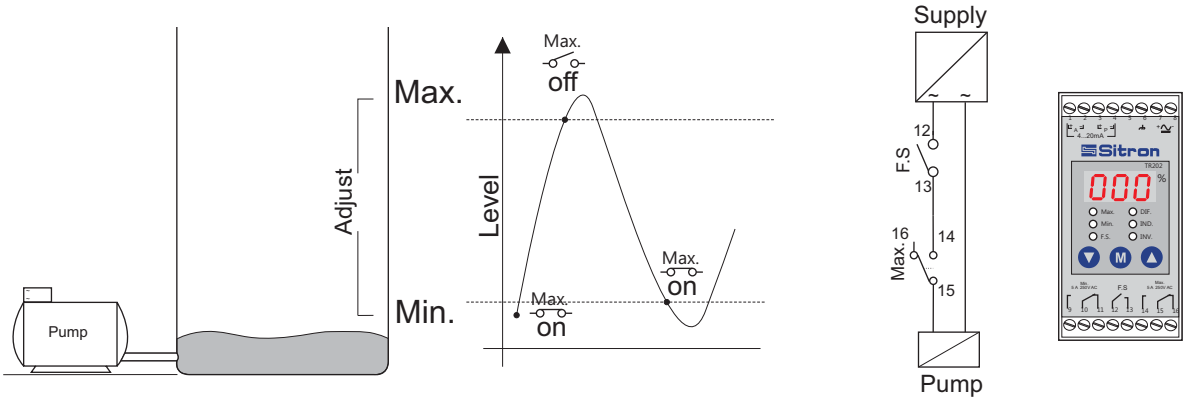


Expand to a Maximum of 10 equipments

Operating Examples

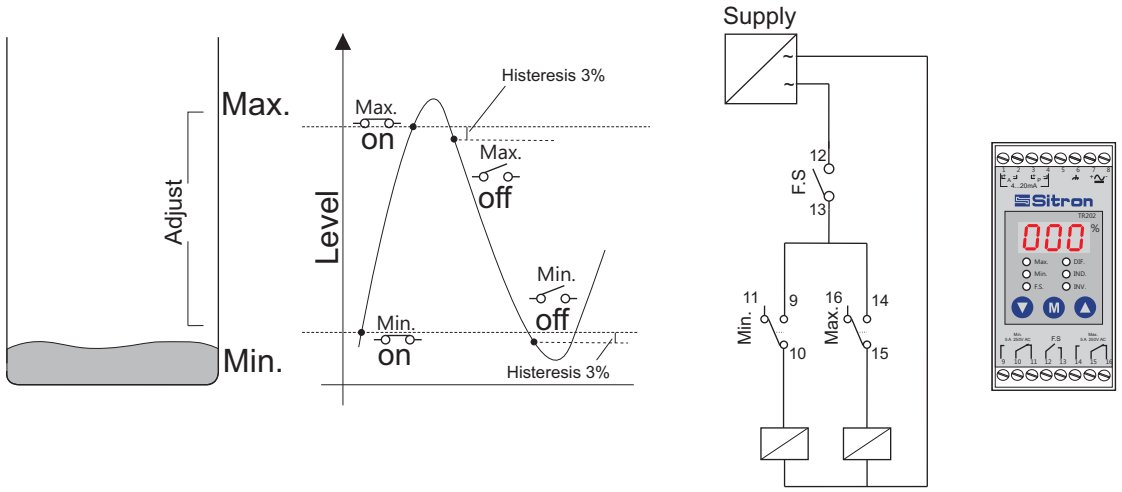
Level control in tanks with automatic activation and shutdown of pumps.

Condition:
-Level under or equal to the minimum setpoint: Pump ON
-Level above or equal to the maximum setpoint: Pump Off



Independent 2 points detection

Condition:
-Level above or equal to the minimum setpoint: Min. ON
-Level above or equal to the Maximum setpoint: Max. ON



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Sitron - Brasil
R. Baronesa de Itu, 83
São Paulo - SP- 01231-001
Fone: +55 (11) 3825-2111
Fax: +55 (11) 3825-2171

Sitron - USA
1800 Prime Place
Hauppauge, NY 11788
PH: 516-935-8001

www.sitron.com
BRASIL: vendas@sitron.com
USA / Other Countries: info@sitron.com