

TR-4

Galvanized Isolated Load Cell Amplifier



Product Description

Esit TR-4, is a micro processor based transmitter that processes the load cells signals to be used in the industry. It is used as a signal converter for PLC or similar industrial control devices in weighing, batching, level control and process control applications. With a user settable relay output, it is possible to control stand-alone systems of simple on-off, fill-empty automations. The rail-mounting case forms an integrity with other panel components and eases the connections. The device which is aimed for industrial environments, features a three-way galvanic isolation. This eliminates the risk of breakdowns of load cells against leakage currents and the output stability is not affected by the electrical noises. Since all adjustments are done via keys, the drifts that may be seen with the potentiometric elements are ceased.



Features

- Three-way galvanic isolation
- Internal power supply for current output eliminates need for external power supply
- Relay state indication
- 0-20 mA Current and 10V Voltage output
- Analog output (4-20 mA)
- Analog output (0-5 V)

Options

1. Communication Modules

- RS232&RS485/RS422 Serial Communication Card (Modbus)
- Modbus TCP Communication Card

2. Input-Output Modules

- Built-in 4-Relay Card
- Analog 4-20 mA/0-10V output (16 bit)

3. Other

- Optional Wi-fi and Bluetooth

Technical Specifications

Accuracy	
Accuracy class (OIML approved)	0.03
A/D conversion	24bit Sigma-Delta
Conversion rate	6Hz - 400Hz
Current output (load impedance)	< 500 ohm
Voltage output (load impedance)	> 5k ohm
Loadcell	
Number of Loadcells allowed	8 pcs (350ohm)
Analog input range	1 mV/V - 2 mV/V - 5 mV/V - 160mV/V (selectable)
Load cell excitation voltage	5V
Isolation voltage	
Power Supply- Load cell	1.5 kV
Power Supply- Output signal	1.5 kV
Load cell - Output signal	1.5kV

Enviroment	
Operating temperature range	0°C +50°C
Storing temperature range	-20°C +70°C
Power supply	24V DC (18V ... 36 V) - 5W
Keys and display	
Keys	3 tactile keys, 0.91" Oled Panel
Housing	
Material and protection class	Rail mounted plastic, IP20
Weight	0.15kg
Package weight and dimensions	0.2kg 13x8x3 cm

Communication	Standard	Optional
Serial communication output	RS-232/RS-485	RS-422
Parallel printer output	-	-
Binary (BCD) output	-	-
Remote display output	-	-
Digital input / output	2 relay output 2A	-
Analog output	4-20mA ve 0-10V	-
Bluetooth	-	Bluetooth
Wi-fi	-	Wi-fi