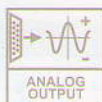
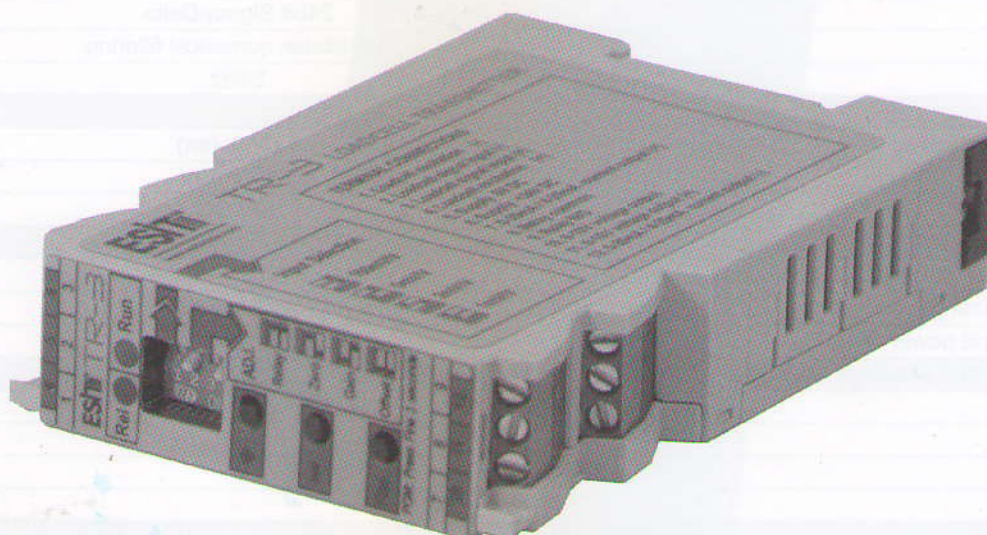
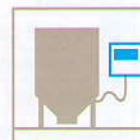


Type TR-3

MicroProcessor based Galvanically isolated Load Cell Amplifier



Product Description

Esit TR3, 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
- Zero setting up to 50% of full range
- Error indicator in case of over voltage
- Relay state indication
- 0-20 mA Current and 10V Voltage output

Options

- RS 232 serial communication output

Technical Specifications

Technical Specifications		
Accuracy		
Accuracy	0.03	
A/D conversion	24bit Sigma-Delta	
Conversion rate	50Hz - 200Hz	
Current output (load impedance)	< 500 ohm	
Voltage output (load impedance)	> 5k ohm	
Load Cell		
Number of load cells allowed	8 (350ohm)	
Analog input range	1 mV/V - 2 mV/V - 5 mV/V - 160mV/V	
Load cell excitation voltage	10V	
Isolation voltage		
Power Supply- Load cell	1.5 kV	
Power Supply- Output signal	1.5 kV	
Load cell - Output signal	1.5 kV	
Environment		
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, 4-DIP switches	
Housing		
Material and protection class	Rail mounted plastic, IP20	
Weight	0.1kg	
Package weight and dimensions	0.2kg 15x24x6 cm	
Communication	Standard	Optional
Serial communication	-	RS-232
Parallel printer output	-	-
Binary-BCD output	-	-
Remote display output	-	-
Digital I/O	1 relay output (2A)	-
Analog output	4-20mA / 0-10V	-

* Serial communication and digital input/output options can not be used simultaneously.

Dimensions

(All measurements are expressed in millimeters)

