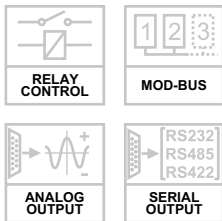
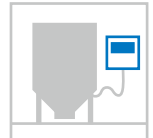


Type LCA2



Load Cell Amplifier

IP66



EU TYPE
APPROVAL



Product Description

Esit LCA2 load cell amplifiers enables weighing various tanks and similar units, and enable remote monitoring of all measurements in the most cost-effective way possible.

Weights of one or more units being weighed by the load cells can either be viewed on the Esit LCA2 devices, which are mounted next to the weighing system and they can also be monitored via a remote computer.

Esit LCA2 distinguishes itself by enabling computerized setup of all parameters through the Modbus communication protocol. Remote access to and setup of parameters are made possible with the use of the embedded communication protocol, Modbus. This enables monitoring and programming of several LCA2, which are connected to the same communication bus, from a single control point such as a PC or a PLC.

Two Windows™ based software programs have been developed for communication with the LCA2 devices. 1. DLMS_VP (Digital Load Cell Measurement System Virtual Panel) is capable of communicating with only one LCA device and setting up all parameters remotely. 2. Dlms_NW (Digital Load Cell Measurement System Network), on the other hand, gives way to viewing more than one LCA amplifiers at the same time. 3. Dlms_NW, a multiple number of computers connected over a network can display the same data.

The aluminum cast housing makes the device serviceable even under dusty, humid and corrosive conditions.

Features

- Dust and moisture resistant, aluminum cast housing
- OLED display
- Dust and humidity-proof membrane type keyboard
- Real-time date and time for calibration log
- Tare, zeroing function
- Zeroing within the entire measurement range
- Selectable unit display options: kg / g / lb / {mV/V} / mV
- Selectable language options: TR / EN
- Remote access to all internal parameters (Modbus)
- RS232 / RS485 serial output
- Analog output (0-20 mA / 0-10V)
- 2 relays output, 2 isolated inputs

Options

- Single LCA communication PC program (DLMS_VP)
- Multiple LCA communication PC program (DLMS_NW)
- RS422 serial communication output

Technical Specifications

Technical Specifications		
Accuracy		
Accuracy class (OIML approved)	10000d (III)	
Input sensitivity	0.5µV/digit	
Linearity	0.0015 % FS	
Zero and gain stability	2ppm/°C	
A/D converter	24bit Sigma-Delta	
Digital filter	Adjustable numerical filtering	
Reading frequency	6Hz - 400Hz	
Load Cell		
Number of load cells allowed	8 (350ohm)	
Analog input range	-25mV with +25mV	
Excitation voltage	10V DC	
Environment		
Operating temperature range (OIML approved)	-10°C +40°C	
Storing temperature range	-20°C +70°C	
Operating voltage and power	12-24 VDC, 5W	
Operator Handling and Display		
Keyboard	Dust and humidity-proof membrane keyboard with 3 tact keys	
Weight display	2.23" Oled Panel	
Function display	-	
Program display	-	
Housing		
Material and protection class	Aluminum, IP66	
Weight	1kg	
Package weight and dimensions	1.1kg, 15x24x6cm	
Communication		
	Standard	Optional
Serial communication output	RS-232 or RS-485 and RS-485	RS-422
Parallel printer output	-	-
Binary (BCD) output	-	-
Remote display output	-	-
Digital input / digital output	2 Digital Input - 2 relay outputs (2A)	-
Analog output	0 - 20 mA / 0-10V (16bit)	-

* Standard serial communication is disabled when RS-422 option is used.

Dimensions

(All measurements are expressed in millimeters)

