



## LOAD CELL AMPLIFIER WITH DISPLAY MODEL DT LCA

LCA (Load cell Amplifier) is a smart signal converter that is designed for harsh industrial environments. LCA's most distinctive feature is its ability to expose all of its parameters using the MODBUS protocol.

LCA has two types such as LCA-D (instrument with a display) and LCA-X (without a display). LCA-D model devices have display for showing the value of measurement and keypad for operator usage.

The components are formed with Surface Mount Design technology (SMD). LCA indicators are designed for fast, accurate and high sensitive weight, force and pressure measurements. With 24 bits A/D converter, LCA devices can achieve 1/100.000 display resolution (optional 1/1.000.000 resolution).

In non-linear systems, LCA devices can perform digital linearization in 5 areas with 6 points and also can perform temperature correction. Housing of LCA devices is strong enough to work within dusty, humid and corrosive environments.

There exist two Windows based PC software for LCA indicators. DLMS\_VP (Digital Load cell Measurement System Virtual Panel), communicates with one LCA device and can setup all user changeable parameters. The other PC software is DLMS\_NW (Digital Load cell Measurement System NetWork), communicates with more than one device and can setup all user changeable parameters on each device. This PC software shares own data with other computers on the network.

### **SPECIFICATIONS**

- Fast and high accurate measurement
- Industrial IP 66 protection class housing
- International OIML R76 and CE approvals
- Gain adjustment according to sensor output
- Digital Filter
- Easily adjustable parameter and calibration via keys
- Analog and Digital Output
- All parameters can be accessed from remote point
- Parallel connection to communication bus

#### **OPTIONS**

- 4-20 mA analog output
- RS 232 output
- 2 Relay output
- 1/1.000.000 display resolution
- Declination measuring module
- DLMS VP PC program
- DLMS\_NW PC program

# **POUL TARP A/S**





#### **TECHNICAL SPEFICATIONS**

0.01 % Accuracy Class Input sensitivity 0,5 µV/digit **Excitation Voltage** 10 V DC

Minimum Load Resistor 43 Ω (8 Load cells)

Measuring Range 1-160 mV/V 0.1-10 Hz **Digital Filters** A/D Converter 24 bits **Linearization Points** 

-20/+70 °C Temperature Range Operating Voltage 10-35 V DC Degree of Protection IP 66 Communication Interface RS 485

**COMMUNICATION FEATURES** 

Inputs / Outputs Serial RS-485 (standard), RS-232 C (option)

**DISPLAY SPECIFICATIONS** 

2x16 character LCD screen with backlight: 7 digit measurement indication, selectable measurement units (g, kg, t, oz, lb, N, kN, **DISPLAY** 

mV/V, V), Relay

YPAD KE 3 keys, water resistive, membrane

**CONTROLLER CARD** 

**ROM** 16 k

**RAM** 1536 Byte

**EEPROM** 2 k

**CONVERTER** 

24 Bits A/D Converter Conversion Speed 20-40 ms Internal Resolution 16.000.000

**POWER** 

10-35 VDC Voltage

**Options** 4-20mA analog output, RS 232

**DIMENSION and WEIGHT** 

Dimensions 130 x 171 x 48 mm

Weight 1000 gr