

DAN-TRANSDUCER ApS



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

DAN-TRANSDUCER ApS

Fiskerengen 5, DK-3250 Gilleleje - Phone: +45 48 22 44 02 - Fax: +45 48 22 44 06
www.dan-transducer.com, E-mail: info@dan-transducer.com

DAN-TRANSDUCER ApS

TECHNICAL SPECIFICATIONS

| | |
|-------------------------|----------------------------|
| Accuracy Class | 0.01 % |
| Input sensitivity | 0,5 μ V/digit |
| Excitation Voltage | 10 V DC |
| Minimum Load Resistor | 43 Ω (8 Load cells) |
| Measuring Range | 1-160 mV/V |
| Digital Filters | 0,1-10 Hz |
| A/D Converter | 24 bits |
| Linearization Points | 6 |
| Temperature Range | -20/+70 °C |
| 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

DISPLAY

2x16 character LCD screen with backlight: 7 digit measurement indication, selectable measurement units (g, kg, t, oz, lb, N, kN, mV/V, V), Relay

YPAD KE

3 keys, water resistive, membrane

CONTROLLER CARD

| | |
|--------|-----------|
| ROM | 16 k |
| RAM | 1536 Byte |
| EEPROM | 2 k |

CONVERTER

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

POWER

| | |
|---------|------------------------------|
| Voltage | 10-35 VDC |
| Options | 4-20mA analog output, RS 232 |

DIMENSION and WEIGHT

| | |
|------------|-------------------|
| Dimensions | 130 x 171 x 48 mm |
| Weight | 1000 gr |

DAN-TRANSDUCER ApS

Fiskerengen 5, DK-3250 Gilleleje - Phone: +45 48 22 44 02 - Fax: +45 48 22 44 06
www.dan-transducer.com, E-mail: info@dan-transducer.com