

DP-301 DIGITAL SERIAL BUS DISPLAY



The DP-301 panel meter is a display unit intended for usage in transferring bit mode measurements and control messages in industrial process control applications.

In addition to the digital display, the meter has 4 alarm indicator lights and possible use of a buzzer. It also checks its own/line operation showing the "Err" warning light as an indication of operation disturbance.

There are 2 different relay contact outputs available for the alarm limits and error operation. The RS-232C bus is only intended for one meter connection. The maximum cable length in this form of operation is 15 m. With the RS-485 multi unit serial connection, each DP-301 has its own address. User may freely select the unit with a DIP switch and the number of units varies from 1 to 31 units in the same serial line. The maximum length of the connection is 1 km. This may be increased by using amplifiers and the number of units can be increased.

The information shown in the 4 digit display may be freely selected; the place of the decimal point and all other ASCII symbols which are shown in the 7 segment mode. The brightness of the display may be dimmed using the DIM push button in the front panel (optional). The DP-301 meter may be obtained with either a 230V 50Hz or 24 VDC voltage supply.

TECHNICAL DETAILS

Input	RS-485 serial bus connection
Data form	1 start-, 8 data- ja 1 stop -bit. No parity.
Transfer speed	1200, 2400, 4800, 9600 or 19200 Baud
Character choice	Numeric expression 9.9.9.9 and all the ASCII-signs that are able to be shown at the 7 segment display
Selection of the address	DIP - device, in between 01-31
Display	4 digits, 7 segments, LED, height of the screen 14 mm
Decimal point	4 different location possibilities in the message
Alarm operation	LED lights (4) in the front panel, internal buzzer and Err-light
Transport distance	Max. 300 m RS-485 connection and max. 15 m RS-232C connection
Operating temperature	0...50 °C
Supply voltage	230V 50Hz, 115V 60 Hz or 24 VDC +/-10 %

INTERFACE

