DPM35S & DPM35SD

Instruction manual

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**Instruction manual**  
**DPM 35S, DPM35SD**

The DPM is a complex component only for professional assemblers. The unit is CE marked according to LVD 73/23/EEC amended 93/68/EEC. Follow these installation guidelines for EMC compatibility. Further measures may be necessary. Installers must have a level of technical competence to correctly install. The EMC behaviour is the responsibility of the manufacturer of the system or installation using this component.

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**DPM 35S**

**DISPLAY RANGE** +/-1999

Apart from the display range the two models have the same specification

- DIN 43700 CASE
- PLUG ON SCREW TERMINALS
- SLIDE IN LEGEND
- FULL RANGE SCALING
- OFFSET CONTROL
- DECIMAL POINT SELECTABLE
- +/- 5V TO +/-400V INPUT RANGE

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**DPM 35SD**

**DISPLAY RANGE** +/-19990

The 35SD unit counts in tens

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**TIP. MAKE LEGEND TAPE LONGER THAN FACIA FOR EASE OF CENTREING**

**LEGEND TAPE DIMENSIONS**

- MAXIMUM THICKNESS 0.3mm (0.012”)
- MAXIMUM WIDTH 13mm
- TEXT WINDOW 80mm BY 8mm

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**ACCURACY** +/-0.05%

**LINEARITY** 0.05%

**TEMPCOEFF** 10ppm/C (0-40)

**DISPLAY** 14mm RED LED

**HOLD MODE** + ILLUMINATED

**RATIO MODE**

- MULTIPLIER INPUT TERMINAL 4, 5 OR 6
- DIVISOR INPUT TERMINAL 9. 0 to +15V MAX
- AUTO HOLD IN RATIO MODE BELOW 100mV

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**RESPONSE** 1 SEC. to 0.1%

**CONV. TIME** 400mS

**OFFSET RANGE** +/-20% of F.S.

**SUPPLY** 110/240 AC 3W

**TERMINALS** ACCEPT 1.5mm wire

**WEIGHT** 300gm

**OVER Range**

- **35S** +1 [BLANK]
- **35SD** +1 [BLANK]

**POLARITY IND.** NEGATIVE ONLY
THE PLUS SIGN INDICATES A DISPLAY HOLD (NOT POSITIVE POLARITY)
BREAK TRACK INDICATED TO BLANK LAST DIGIT (35S)
MINUS SIGN INDICATES INPUT SIGNAL IS NEGATIVE WITH RESPECT TO COMMON
NO SIGN DISPLAYED FOR POSITIVE SIGNALS
OFFSET ADJUST CLOCKWISE TO INCREASE DISPLAY POSITIVELY
MOVE JUMPER TO SELECT DECIMAL POINT
SCALE ADJUST CLOCKWISE TO INCREASE DISPLAY FULL SCALE NUMBER
TO GAIN ACCESS TO ADJUST, CAREFULLY LEVER OFF PLASTIC CLIP ON BEZEL. PUSH TERMINALS TO LIFT FACIA

Choose signal input terminal 4, 5 or 6 to suit full scale range. The scaling preset will then span between 10% and 100% of the display range. All signal inputs are referred to COMMON on terminals 7 and 8.

For 4-20mA signals remove rear cover and insert a 270 Ohm burden in position provided (R34). Adjust for zero display at 4mA with the offset preset.

Ratio mode. Display = A/B. B is entered via terminal 9, 0 to +15V max. Below 100mV the display holds (+). 'A' is entered via T4, T5 or T6. With 'A' disconnected set the display to zero using offset. With 'A' connected set the scale for the desired ratio display according to the signal voltages. Check the ratio for a range of inputs.

To change display polarity, swap the incoming pair of signal wires. To increase sensitivity for small signals connect a resistor between T9 and T8. Value = 100K for X 2 or 10K for X 10.

The unit inputs have built in filters. The display is non-multiplex to minimise radiated noise.