

**Current and voltage inputs.**

**Separate zero and span adjustments.**

**Supply voltage 9-35 VDC / 9-26 VAC.**

**Galvanic isolation between supply and internal electronics.**

**Red or green LED display.**



Series DP5xx consists of 4 different panel instruments, all with the same electrical data and functions, but with different mechanical dimensions and digit heights.

## Common technical data:

|                             |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Supply voltage:</b>      | 9-36 VDC / 9-26 VAC<br>The supply voltage is galvanically isolated from the internal electronics. |
| <b>Power consumption:</b>   | typ. 60 mA @ 24 VDC                                                                               |
| <b>Operating temp.:</b>     | -10°C to +50°C                                                                                    |
| <b>Humidity:</b>            | 0 - 90% RH, non-condensing                                                                        |
| <b>Protection:</b>          | IP 44                                                                                             |
| <b>Temp.coefficient:</b>    | max. 0,01% / °C                                                                                   |
| <b>Linearity:</b>           | +/- 1 count                                                                                       |
| <b>Display reading:</b>     | -999 to 1999                                                                                      |
| <b>Display color:</b>       | red or green (DP542: red only)                                                                    |
| <b>Metering ranges:</b>     | 0-1 V, 0-10 V and 0-20 mA.                                                                        |
| <b>Input protection:</b>    | +/- 36 VDC ( all ranges)                                                                          |
| <b>Overload indication:</b> | display shows "1---                                                                               |
| <b>Input impedances:</b>    | Voltage metering: >100 kΩ<br>Current metering: typ. 75 Ω                                          |
| <b>Connections:</b>         | screw terminals, max. 1,5 □ mm.                                                                   |

## EMC and safety regulations.

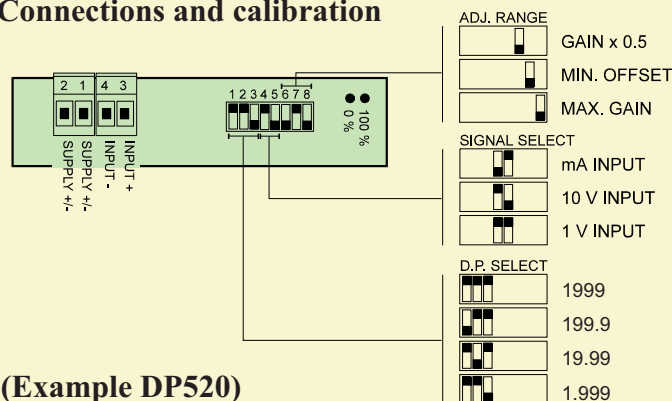
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| <b>Emmision:</b> | EN 50 081 - 1 |
| <b>Immunity:</b> | EN 50 082 - 2 |
| <b>Safety:</b>   | EN 60 730     |

**Approvals:** The units are produced in accordance with the CE and low voltage regulations.

## Individual specifications:

|                           |                         |
|---------------------------|-------------------------|
| <b>DP520:</b> Dimensions: | 24 x 96 mm, depth 66 mm |
| digit height:             | 13 mm                   |
| <b>DP530:</b> Dimensions: | 48 x 48 mm, depth 67 mm |
| digit height:             | 10 mm                   |
| <b>DP531:</b> Dimensions: | 48 x 96 mm, depth 66 mm |
| digit height:             | 13 mm                   |
| <b>DP542:</b> Dimensions: | 48 x 96 mm, depth 66 mm |
| digit height:             | 20 mm                   |

## Connections and calibration



(Example DP520)

- 1: Select the wanted input type (1V, 10V or 20 mA)
- 2: Select the wanted offset and gain.
- 3: Connect the wanted minimum signal to the input and adjust for wanted minimum display with 0% potmeter.
- 4: Connect the wanted maximum signal to the input and adjust for wanted maximum display with 100% potmeter.
- 5: Check min and max display and readjust if needed.
- 6: Select decimal position

## Block diagram:

