



## Dew point monitoring DS 52 for refrigeration driers

### Consisting of:

- Digital process meter DS 52 (0500 0009)

- Standard measuring chamber



- Option alarm unit (buzzer and continuous red light) (Z500 0003)

- Dew point sensor FA 510 (0699 0512)

The measuring range of  $-20...50^{\circ}\text{Ctd}$  makes the dew point set DS 52 with alarm the ideal dew point monitor with analogue output  $4...20\text{ mA}$ .

The dew point sensor FA 510 is extremely long-term stable and can be installed and removed quickly and easily under pressure by means of the screwable measuring chamber including quick coupling. The dew point set is supplied ready for plug-in, i.e. everything is completely wired. The alarm values can be freely adjusted.

### Special features:

- System ready for plug-in: Everything completely wired
- No time-consuming studying of the instruction manual
- 2 alarm contacts (230 VAC, 3 A) pre- and main alarm freely adjustable
- $4...20\text{ mA}$  analogue output
- Option alarm unit: Buzzer and continuous red light

### Technical data display DS 52:

|                               |  |
|-------------------------------|--|
| <b>Dimensions:</b>            | 118 x 92 x 93 mm   |
| <b>Display:</b>               | LED red, 7 segments, height: 13 mm, 5 digits, 2 LED for alarm relay                      |
| <b>Keypad:</b>                | 4 keys   |
| <b>Input:</b>                 | $4...20\text{ mA}$   |
| <b>Power supply:</b>          | 230 VAC, 50/60 Hz; Option: 24 VDC or 110 VAC 50/60 Hz                                    |
| <b>Alarm outputs:</b>         | 2 x relay output, changeover contact, 250 VAC, max. 3 A                                  |
| <b>Operating temperature:</b> | $-10...+60^{\circ}\text{C}$ (storage temp. $-20^{\circ}\text{C}...+80^{\circ}\text{C}$ ) |
| <b>Alarm thresholds:</b>      | freely adjustable  |
| <b>Hysteresis:</b>            | $2^{\circ}\text{Ctd}$  |
| <b>Analogue output:</b>       | $4...20\text{ mA} = -20...50^{\circ}\text{Ctd}$  |

### Technical data dew point sensor FA 510

|                                    |  |
|------------------------------------|--|
| <b>Measuring range:</b>            | $-20...50^{\circ}\text{Ctd}$   |
| <b>Accuracy:</b>                   | $\pm 1^{\circ}\text{C}$ at $0...20^{\circ}\text{Ctd}$<br>$\pm 2^{\circ}\text{C}$ remaining range |
| <b>Pressure range:</b>             | $-1...50\text{ bar}$<br>special version up to 350 bar  |
| <b>Protection class:</b>           | IP 65  |
| <b>EMV:</b>                        | according DIN EN 61326   |
| <b>Operating temp.:</b>            | $-20...70^{\circ}\text{C}$   |
| <b>Connection:</b>                 | M12, 5-pole  |
| <b>PC connection:</b>              | Modbus-RTU interface (RS 485)  |
| <b>Burden for analogue output:</b> | $< 500\ \Omega$  |
| <b>Screw-in thread:</b>            | G 1/2"   |

| Description  | Order No.        |
|--|------------------|
| <b>Dew point monitoring DS 52 for refrigeration driers consisting of:</b>  | <b>0600 5120</b> |
| DS 52 LED display in wall housing  | 0500 0009        |
| FA 510 dew point sensor for refrigeration driers $-20...50^{\circ}\text{Ctd}$ incl. inspection certificate, $4...20\text{ mA}$ output signal (3-wire connection), and Modbus-RTU interface | 0699 0512        |
| Standard measuring chamber up to 16 bar  | 0699 3390        |
| Connection cable for VA/FA sensors, 5 m  | 0553 0104        |
| <b>Options:</b>  |                  |
| Power supply 24 VDC (instead of 230 VAC)   | Z500 0001        |
| Power supply 110 VAC (instead of 230 VAC)  | Z500 0002        |
| Alarm unit mounted at wall housing   | Z500 0003        |
| Alarm unit for external mounting with 5 m cable  | Z500 0004        |
| <b>Additional accessories:</b>   |                  |
| Precision calibration at $3^{\circ}\text{Ctd}$ including ISO certificate   | 0699 3396        |