



FA 500 – 高性能固定式露點計 -80 to 20 °Ctd

FA 500 露點計是擁有高精度、高穩定度、使用壽命長的壓縮空氣、各式氣體品質監控儀器。帶有內建顯示器和報警設定，適用於冷凝式，隔膜式和吸附式乾燥機。

產品優勢:

- 內建露點顯示器
- 可設定alarm relay 閾值(max. 60 VDC, 0.5 A)
- 最高可承受350 bar 管線壓力 (特殊規格)
- 使用壽命長且長期保持高穩定度
- 快速的響應時間
- 4...20 mA 類比輸出
- 各種應用場所: 如冷凝式乾燥機及吸附式乾燥機
- **NEW:** Modbus-RTU 介面
- **NEW:** 經過全新的電子技術改良，提供更優質的解析度及傳感器訊號

CS 露點計可藉由 Modbus傳輸以下數據:

- Pressure dew point [° Ctd.]
- Temperature [° C]
- Rel. humidity [% rh]
- Abs. humidity [g / m³]
- Moisture content [g / m³]
- Moisture content V / V [ppmV / V]
- Water vapor particle pressure [hPa]
- Atmospheric dew point [° Ctd.atm]

操作介面按鍵使FA500固定式露點計操作更加順手、容易。



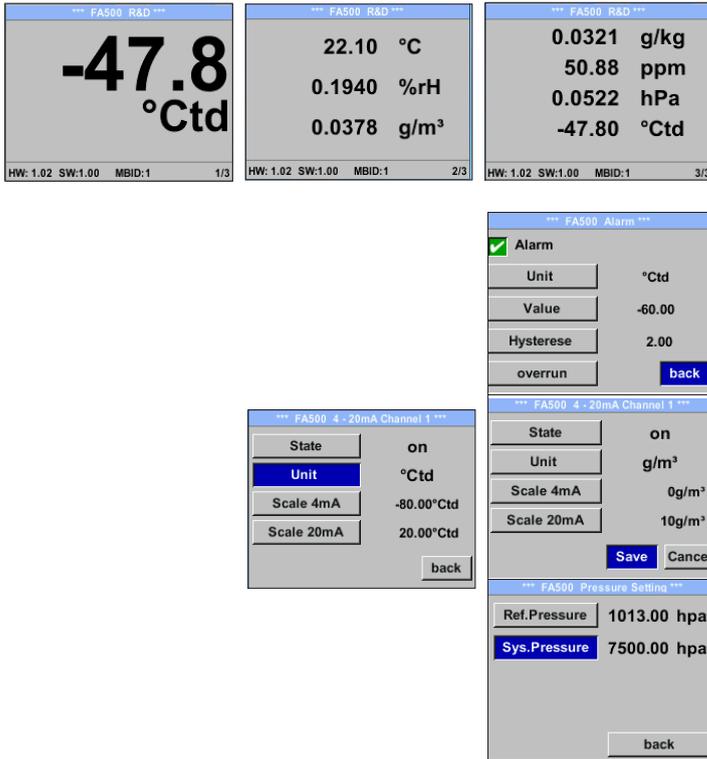
上方連接孔:

Power supply, 4...20 mA output, Modbus-RTU output

下方連接孔:

Alarm relay

Easy operation via keys on the display



內建的顯示窗顯示清晰的的露點以及更多濕度參數。操作按鍵箭頭鍵可用於在顯示頁面之間的滑動。

通過按鍵輸入內建的繼電器的報警閾值。除警報閾值外，還可以自由輸入遲滯時間。

可自由設定4 ... 20 mA類比輸出範圍。並設定不同單位，例如：g/m³

在輸入壓縮空氣系統的系統壓力和參考壓力（大氣壓力）後，如果需要，傳感器還可以從測量的壓力露點計算回大氣露點。

| DESCRIPTION | ORDER-NO. |
|---|-----------|
| FA 500 dew point sensor for refrigeration driers, -20...50 °Ctd | 0699 0501 |
| FA 500 dew point sensor for desiccant driers, -80...20 °Ctd | 0699 0502 |
| FA 500 dew point sensor for desiccant driers, -60...30 °Ctd | 0699 0503 |
| Connection cables: | |
| Connection cable for VA/FA series, 5 m | 0553 0104 |
| Connection cable for VA/FA series, 10 m | 0553 0105 |
| Cable for alarm/pulse output, with M12 plug, length 5 m | 0553 0106 |
| Cable for alarm/pulse output, with M12 plug, length 10 m | 0553 0107 |
| Ethernet connection cable length 5 m, M12 plug x-coded (8 pin) to RJ 45 plug | 0553 2503 |
| Ethernet connection cable length 10 m, M12 plug x coded (8 pin) to RJ 45 plug | 0553 2504 |
| Options for FA 500: | |
| Option: max. pressure FA 5xx 350 bar | Z699 0515 |
| Option: max. pressure FA 5xx 500 bar | Z699 0516 |
| Option: special scaling FA 5xx 4...20 mA= ... g/m ³ , ppm etc. | Z699 0514 |
| Option: connection thread FA 5xx, 5/8" UNF | Z699 0511 |
| Option: surface condition FA 5xx, free of oil & grease | Z699 0517 |
| Ethernet-Interface for VA 500/520 and FA 500 | Z695 5006 |
| Ethernet-Interface PoE for VA 500/520 and FA 500 | Z695 5007 |
| M-Bus board for VA 500/520 and FA 500 | Z695 5004 |
| Furhter accessories: | |
| Standard measuring chamber up to 16 bar | 0699 3390 |
| High pressure measuring chamber up to 350 bar | 0699 3590 |
| CS Service Software for FA/VA sensors incl. PC connection set, USB connection and interface adapter to the sensor | 0554 2007 |
| Mains unit in wall housing for maximum 2 sensors of the series VA/FA 5xx, 100-240 V, 23 VA, 50-60 Hz / 24 VDC, 0.35 A | 0554 0110 |
| AC adapter plug 100-240 V AC/ 24 V for VA/FA 500/520 | 0554 0109 |
| Calibration and adjustment: | |
| Precision calibration at -40 °Ctd or +3 °Ctd including ISO certificate | 0699 3396 |

TECHNICAL DATA FA 500

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|----------------------------------|--|
| Measuring range: | -80...20 °Ctd, -60...30 °Ctd, -20...50 °Ctd, resp.. 0...100% RH |
| Accuracy: | ± 1°C to +50...-20°Ctd ± 2°C to -20...-50°Ctd ± 3°C to -50...-80°Ctd |
| Pressure range: | -1...50 bar special version up to 500 bar |
| Power supply: | 24 VDC (18...30 VDC) |
| Protection class: | IP 65 |
| EMC: | According to DIN EN 61326-1 |
| Operation temp.: | -20...50 °C |
| Connection: | 2 x M12, 5-pole for anlalog output, Modbus-RTU and alarm output, M-Bus (optional) Ethernet (PoE) (optional) |
| PC connection | Modbus-RTU interface (RS 485) |
| Output: (3-wire) | 4...20 mA = -80...20°Ctd 4...20 mA = -60...30°Ctd 4...20 mA = -20...50°Ctd |
| Burden for analog output: | < 500 Ω |
| Alarm relay: | NC, max.60 VDC, 0,5 A |
| Screw-in thread: | G 1/2" |
| Dimensions of housing: | 76,5 x 85 x 75 (BxHxT) |