



CS INSTRUMENTS (PTY) LTD

Compressed Air Monitoring

according to

ISO/ SANS 7396-1

for Hospitals,
Laboratories and
Pharmaceutical Industries





Dew point

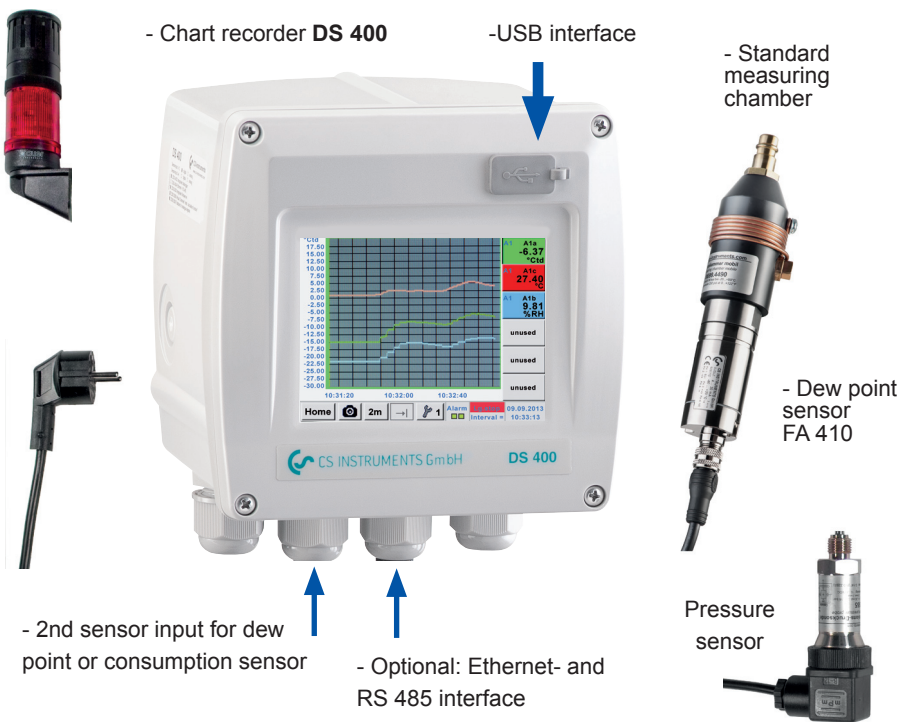
Dew point set DS 400 according to ISO/ SANS 7396-1

- Dew point monitoring with alarm function (ml/m³ / ppm)
- Optional pressure compensation

Dew point set DS 400

consisting of:

- Option alarm unit (buzzer and continuous red light)



Special features:

- 3.5" graphic display - easy operation with touch screen
- System ready for plug-in: Everything completely wired
- 2 alarm contacts (230 VAC, 3 A) pre- and main alarm freely adjustable
- **NEW:** An alarm delay can be set for each alarm relay
- 4...20 mA analogue output
- Option: Ethernet and RS 485 interface (Modbus protocol)
- Option: Webserver



Option: Integrated data logger

- Recording of the dew point progression of up to 100 million measuring values
- CS Soft Basic for evaluation in graphic and table form. Read-out of the data either via USB stick or via Ethernet

Technical data DS 400

Dimensions:	118 x 115 x 98 mm IP 54 (wall housing) 92 x 92 x 75 mm (panel mounting)
Inputs:	2 digital inputs for FA 410 resp. VA 400/420
Interface:	USB
Power supply:	100...240 VAC, 50-60 Hz
Accuracy:	please see FA 410
Alarm outputs:	2 relays, (pot.-free)

Options:	
Data logger:	100 million measuring values start/stop time, measuring rate freely adjustable
2 additional sensor inputs:	for connection of pressure sensors, temperature sensors, clamp-on ammeters, third-party sensors with 4...20 mA 0 to 10 V, Pt 100, Pt 1000

Technical data FA 410

Measuring range:	-80...20 °Ctd resp. -20...50 °Ctd
Accuracy:	± 1 °C at 20...-20 °Ctd ± 2 °C at -20...-50 °Ctd ± 3 °C at -50...-80 °Ctd
Pressure range:	-1...50 bar, special version up to 350 bar

Description	Order No.
Dew point set DS 400 for adsorption dryers (-80...+20 °Ctd)	0601 0410
Virtual channels for dew point monitoring in ppm with the option of actual pressure measurement for pressure fluctuation compensation.	Z500 4007
Alarm unit mounted at wall housing	Z500 0003
Alarm unit for external mounting with 5 m cable	Z500 0004
Options	
Standard pressure sensor CS 16 from 0...16 bar	0694 1886
Connection cable 5 m	0553 0108
Integrated data logger for 100 million measured values	Z500 4002
Integrated Ethernet and RS 485 interface	Z500 4004
Integrated webserver	Z500 4005
2 additional sensor inputs for analogue sensors (pressure sensor, temperature sensor and so on)	Z500 4001
CS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB or Ethernet	0554 7040
Precision calibration at -40 °Ctd or +3 °Ctd including ISO certificate	0699 3396



Additional compressed air quality parameters according to ISO 8573-1

Residual oil content measurement - OIL check

The residual oil content sensor OIL check measures the vaporous residual oil content in the compressed air. By means of a sample taking a representative part volume flow is taken from the compressed air and led to the OIL check.

Due to the continuous measurement threshold value exceeding will be recognized immediately and remedial actions initiated.



Description	Order No.
OIL-Check residual oil content measurement for vaporous residual oil content (DN 20-DN 40), 3-16 bar, measuring range <math><0.01...5.000 \text{ mg/m}^3</math>, including sampling probe (DN 20-DN 40), inspection certificate, 4...20 mA analogue output. Please order measuring section for sampling separately.	0699 0060
OIL-Check measuring section for sampling (DN 20, 3/4", 16 bar, stainless steel, outer diameter 26.9 mm, outer thread R 3/4")	4000 2001
Ball valve G 3/8" incl. connection fittings for installation between sampling probe and OIL-Check, cleaned oil- and grease-free	3300 0004
Connection plug for 4...20 mA analogue output	3300 0005
Connection cable 5 m	0553 0108
DS 400 chart recorder with graphic display and touch screen operation	0500 4000 A
Option: Integrated data logger for 100 million measured values	Z500 4002
Option: Integrated Ethernet and RS 485 interface	Z500 4004
CS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB or Ethernet	0554 7040
OIL-Check versions for different pipe diameters:	0699 0061
OIL-Check - residual oil content measurement for vaporous residual oil content (DN 50 - DN 80), 3-16 bar, meas.range <math><0.01...5.000 \text{ mg/m}^3</math> including sampling probe (DN 50 - DN 80), inspection certificate, 4...20 mA analogue output. Please order meas. section for sampling separately.	
OIL-Check - residual oil content measurement for vaporous residual oil content (>DN 80), 3-16 bar, meas.range <math><0.01...5.000 \text{ mg/m}^3</math>, incl. sampling probe (customer-specific length), insp. certificate, 4...20 mA analogue output. Please order meas. section for sampling separately.	0699 0062
OIL-Check measuring section for sampling (DN 25, 1"), 16 bar, stainless steel, outer diameter 33.7 mm, R 1"	4000 2002
OIL-Check measuring section for sampling (DN 32, 1 1/4"), 16 bar, stainless steel, outer diameter 42.4 mm, R 1 1/4"	4000 2003
OIL-Check measuring section for sampling (DN 40, 1 1/2"), 16 bar, stainless steel, outer diameter 48.3 mm, R 1 1/2"	4000 2004
OIL-Check measuring section for sampling (DN 50, 2"), 16 bar, stainless steel, outer diameter 60.3 mm, R 2"	4000 2005
OIL-Check measuring section for sampling (DN 65, 2 1/2"), 16 bar, stainless steel, outer diameter 76.1 mm, R 2 1/2"	4000 2006
OIL-Check measuring section for sampling (DN 80, 3"), 16 bar, stainless steel, outer diameter 88.9 mm, R 3"	4000 2007
Stainless steel pipe 6x1 mm for horizontal installation, length max. 1000 mm including connection fittings	4000 2008



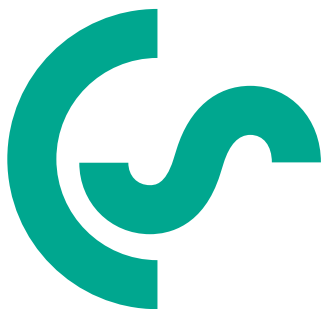
Particle counter PC 400

The highly precise optical particle counter PC 400 measures particles from a size of 0.1 μm and is therefore suitable for monitoring of the compressed air quality class 1 (ISO 8573). The correct function the filtration elements mounted in the compressed air is monitored and possible filter perforations are recognized immediately. The compressed air flow through the particle counter is automatically supervised.

Description	Order No.
PC 400 particle counter up to 0.1 μm for compressed air and gases incl. pressure reducer	0699 0040
Connection cable 5 m	0553 0108
DS 400 chart recorder with graphic display and touch screen operation	0500 4000 D
Option: Integrated data logger for 100 million measured values	Z500 4002
Option: Integrated Ethernet and RS 485 interface	Z500 4004
CS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB or Ethernet	0554 7040
Alternative version to PC 400 up to 0.1 μm : PC 400 particle counter up to 0.3 μm for compressed air and gases incl. pressure reducer	0699 0041



Dew point



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