

The compact pressure measuring instrument

Product highlight: Series S4600 ST

+ All-in-one

Measurement of pressure, vacuum and differential pressure and, depending on the version, Pitot measurement (air velocity).

+ Proven

Infrared interface for IR printer.

+ Ergonomic

Extremely compact and light-weight design for convenient handling, including hands-free operation thanks to the magnet integrated in the protective housing.

+ Full coverage

Covers the entire range of measuring requirements: From measuring instrument for ultra-low pressure (20 mbar) to version for very high pressure (18 bar).

+ Perseverant

Powerful lithium-ion battery for up to 38 hours of operation.

+ Mobile

Measurement logs as QR codes for smartphones, tablets or management software.

+ Accurate

Highly accurate measurements due to integrated barometric pressure sensor and temperature compensation. Measured values are displayed in nine units: mbar, Pa, hPa, kPa, mmWC, mmHg, inHg, psi, bar.

+ Innovative

Bluetooth® Low Energy interface on board: Power-saving data transmission to all AFRISO CAPBs® or to the AFRISO apps.

**+ Smart**

Optional data logger function (1–999 seconds, interval freely selectable) for long-term measurement or diagnostics. Data output in XML format for flexible further processing with standard software applications such as MS Excel.

+ Comprehensive

Six (differential) pressure measuring ranges

+ Independent

microSD card for system-independent storage of measurement logs (HTML format) and fast software updates.

+ Energy-saving

The ECO mode for energy-saving operation ensures long battery life.

+ Reliable

Fully automatic device check, manual and automatic zero calibration during program start.

+ Striking

More convenience: The large TFT colour display (W x H: 45 x 60 mm) shows four measured values simultaneously and lets you clearly see the results, even in dark rooms.

**EuroSoft connect app**

PRESSURE MEASURING INSTRUMENT

S4600 ST



- + For measuring pressure, vacuum and differential pressure
- + Six (differential) pressure measuring ranges from measuring instrument for ultra-low pressure (20 mbar) to version for very high pressure (18 bar)
- + Barometric pressure sensor and temperature compensation for highly accurate measured value
- + Large TFT colour display (W x H: 45 x 60 mm) for simultaneous display of 4 measured values
- + Measured values displayed in 9 units: mbar, Pa, hPa, kPa, mmWC, mmHg, inWC, psi, bar
- + Fully automatic device check, manual and automatic zero calibration during program start
- + MicroSD card for system-independent storage of measurement logs (HTML format) and fast software updates
- + Optional data logger function for long-term measurement or diagnostics (data in XML format)
- + Pitot measurement (air velocity) for measuring range up to 20 mbar or 150 mbar

EuroSoft connect app



Application

For measuring pressure, vacuum and differential pressure. For non-corrosive gaseous, dry media. Ideal for industrial, medical and air conditioning technology applications. Other typical application areas: Measurement of chimney draft, measurement of inlet pressure, flow pressure and nozzle pressure, pressure loss in flowing gases, filter inspection, ventilation systems or ducts, production and extraction facilities, vacuum measurement (laboratory), check of the connection pressure (natural gas supply pipes), burner pressure check, inspection of tanks for liquids (inlet and outlet pressure). Minimum and maximum values can be set before the measurement; if these values are reached, visual or audible alarms are triggered. The free Android app "EuroSoft connect" allows for transfer of measurement results to smartphones and tablets via QR code and for the visualisation of such results. Measurement logs can also be sent via e-mail.



Top



Bottom



- 1 Pressure/differential pressure measurement
 2 Infrared printer interface
 3 Signal unit (speaker)
 4 MicroSD card slot
 5 USB connection for power supply unit/charger

Technical specifications

| Model | Measuring range (mbar) | Pitot (m/s) | Max. over-pressure (bar) | Resolution (mbar) | Accuracy (% of measured value) |
|----------------------|------------------------|-------------|--------------------------|--|---------------------------------------|
| S4601 ST | ± 150 | 2–50 | 1.35 | 0.01 (< 99.99) / 0.1 (> 100); Pitot (m/s): 0.1 | ± 0.03 mbar or 0.5 %; Pitot: 0.8 m/s |
| S4602 ST | ± 20 | 0.5–50 | 0.25 | 0.001 Pitot (m/s): 0.1 | ± 0.003 mbar or 0.5 %; Pitot: 0.3 m/s |
| S4610 ST | ± 1,000 | – | 16 | 0.1 (< 999.9) or 1.0 (> 1,000) | ± 0.03 mbar or 0.5 % |
| S4650 ST (-F) | ± 5,000 | – | 16 | 0.1 (< 999.9) or 1.0 (> 1,000) | ± 0.07 mbar or 0.5 % |
| S4680 ST (-F) | ± 8,000 | – | 16 | 0.1 (< 999.9) or 1.0 (> 1,000) | ± 1.2 mbar or 0.5 % |
| S4699 ST-F | ± 18,000 | – | 28 | 1 | ± 3 mbar or 0.5 % |

Operating temperature range

Ambient: 0/40 °C
Storage: -20/+50 °C

Hours of operation (eco mode)

Max. 38 hours

Weight

Approx. 220 g

Dimensions

W x H x D: 66 x 143 x 37 mm

Display

TFT colour display, 2.8"
W x H: 45 x 60 mm

Hose connection

S4601 ST, S4602 ST, S4610 ST,
S4650 ST, S4680 ST: 2 x Ø 8 mm
S4650 ST-F, S4680 ST-F, S4699 ST-F:
2 x Ø 3 mm (Festo)

Supply voltage

Lithium-ion battery (3.6 V/1,800 mAh),
power supply unit (mini USB), battery or mains
operation

Data memory

MicroSD card, max. 16 GB

Interfaces

Infrared, Bluetooth® Low Energy, QR code
generator, microSD card slot

Approvals

Draft measurement, EN 50379-2

i

See chapter 6 for options and accessories.

| DG: H, PG: 4 | Part no. | Price € |
|--|----------|---------|
| Pressure measuring instrument S4601 ST (150 mbar) | 571301 | |
| Pressure measuring instrument S4602 ST (20 mbar) | 571300 | |
| Pressure measuring instrument S4610 ST (1,000 mbar) | 571302 | |
| Pressure measuring instrument S4650 ST (5,000 mbar) | 571303 | |
| Pressure measuring instrument S4650 ST-F (5,000 mbar), with Festo connection ø 3 mm | 571304 | |
| Pressure measuring instrument S4680 ST (8,000 mbar) | 571305 | |
| Pressure measuring instrument S4680 ST-F (8,000 mbar), with Festo connection ø 3 mm | 571306 | |
| Pressure measuring instrument S4699 ST-F (18,000 mbar), with Festo connection ø 3 mm | 571307 | |



Also as
CAPBs®

PRESSURE MEASURING INSTRUMENT

S2600

- + Four (differential) pressure measuring ranges
- + Measured values displayed in 8 units: mbar, Pa, hPa, kPa, mmHg, inHg, psi, bar
- + Hold function for short-term freezing of measured value
- + Fully automatic device check, manual and automatic zero calibration during program start
- + Hose connection via 8 mm plug in connection or 3 mm Festo clamp connection

2

Application For measuring pressure, vacuum and differential pressure. For non-corrosive gaseous, dry media. Ideal for industrial, medical and air conditioning technology applications.

Other typical application areas: Measurement of chimney draft, measurement of inlet pressure, flow pressure and nozzle pressure, pressure loss in flowing gases, filter inspection, ventilation systems or ducts, production and extraction facilities, vacuum measurement (laboratory), check of the connection pressure (natural gas supply pipes), burner pressure check, inspection of tanks for liquids (inlet and outlet pressure).

Technical specifications

| Device model | Measuring range (mbar) | Max. overpressure (bar) | Resolution (mbar) | Accuracy (% of measured value) |
|-------------------------|------------------------|-------------------------|---------------------------------|--------------------------------|
| S2601 (FZM 30) | -20/+150 | 1.35 | 0.01 (< 19.99) or 0.1 (> 20) | 1.0 ± 1 digit (< 130.0 mbar) |
| S2610 (DMG 15) | -50/+1,000 | 3 | 0.1 (< 199.9) or 1.0 (> 200) | 1.0 ± 1 digit (< 1,000 mbar) |
| S2650-F (DMG 25) | -100/+5,000 | 10 | 0.1 (< 199.9) or 1.0 (> 200) | 1.0 ± 1 digit (< 5,000 mbar) |
| S2680-F (DMG 35) | -100/+8,000 | 10.5 | 0.1 (< 199.9) or 1.0 (> 200) | 1.0 ± 1 digit (< 8,000 mbar) |

Operating temperature range

Ambient: 0/40 °C

Storage: -20/+50 °C

Hours of operation (eco mode)

Max. 100 hours

Weight (housing)

Approx. 250 g

Dimensions

W x H x D: 66 x 143 x 37 mm

Display

LCD, transfective

W x H: 46 x 48 mm

Hose connection

S2601, S2610: Ø 8 mm

S2650-F, S2680-F: Ø 3 mm (Festo)

Supply voltage

2 x 1.5 V Mignon (AA) batteries

Approvals

1st German Federal Immission Act (1. BImSchV), EN 50379-2

Scope of delivery

Measuring instrument with batteries, calibration report, protective sleeve with magnet

i

See chapter 6 for options and accessories.



| DG: H, PG: 4 | Part no. | Price € |
|---|---------------|---------|
| Draft measuring instrument S2601 (FZM 30) | 569680 | |
| Pressure measuring instrument S2610 (DMG 15) | 569681 | |
| Pressure measuring instrument S2650-F (DMG 25) | 569682 | |
| Pressure measuring instrument S2680-F (DMG 35) | 569684 | |