

S418

Compact Thermal Mass Flow Meter





SMARTPHONE ANDROID APP For remote configuration



POINT-OF-USE MEASUREMENT Monitor machines and air consumers



COMPACT DESIGN Can be installed any-



TOTAL FLOW No bypass measurement



EASY PROCESS MONITORING Effective and inexpensive recording



ACCURATE RESULTS Integrated flow conditioner



Benefits

- Mutiple material option for measuring section: Aluminium or Stainless steel SUS316L/1.4404
- Highly versatile flow and consumption meter for compressed air and technical gases
- Integrated pressure sensor optional
- Integrated data logger for measurement recordings as standard feature
- Various process connection sizes available: DN8, DN15, DN20, DN25, DN32, DN40 and DN50 (G-inner-thread)
- Accurate monitoring of gas supplies and consumers
- Integrated flow conditioner eliminates the need of straight inlet sections

Powerful Pro Version – Flexible Installation

The S418 Thermal Mass Flow Meters offers compressed air flow and gas measurement directly at the point of use.

It comes standard with wireless communication interface to help the user quickly and easily check the flow meter readings or adjust the settings via the SUTO flow meter app.

Improve your compressed air system efficiency, while helping reduce compressed air and gas usage and operating costs by monitoring:

- Flow and Consumption
- Pressure
- Temperature

Connection

Pin assignment connector plug M8



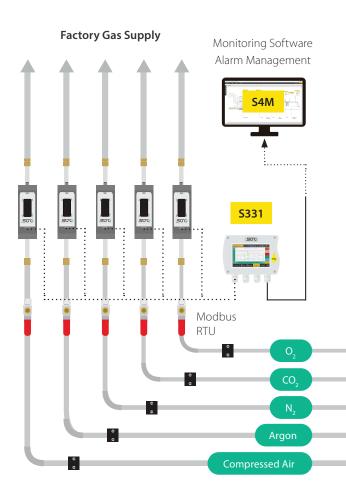
- Every sensor includes 5m M8 cables with open ends
- Sensor with Modbus/RTU or M-Bus include 1 cable
- Sensors with Analog output include 2 cables

| Output | Connec- tor | Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|------------|----------------|-------|-------|-------|-------|
| Modbus/ | А | D- | -VB | +VB | D+ |
| RTU | В | D- | GND | NA | D+ |
| Analog and | Α | - | -VB | +VB | 1+ |
| Pulse | В | - | Р | Р | l+ |
| M-Bus | Α | M-bus | -VB | +VB | M-bus |
| IVI-DUS | В | M-bus | NA | NA | M-bus |
| Wire color | | Brown | White | Blue | Black |

Gas Monitoring Application

The S418 is ideal for remote locations or high accuracy compressed air flow and gas measurements with its built-in data logger and optional pressure sensing.

The compact flow meters provide accurate gas flow monitoring, helping to discover weak points in the process flow, thus ensuring continuity and profitability.





Wireless Connection

The free S4C-FS App offers a unique wireless connection to every SUTO flow meter for online readings and configuration.

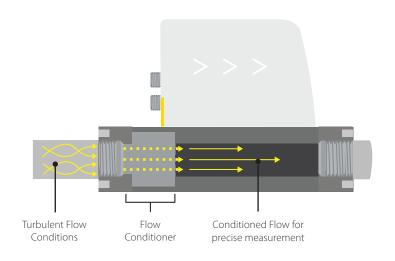
Especially during installation and setup all settings can be performed using a smartphone, there is no need to carry a PC and an interface on site. This saves a lot of time and is the easy way to get reliable sensor readings.

Every sensor is protected by default. To perform changes on the flow meter, first a QR code must be scanned.

Flow Conditioner

Asymmetric velocity profiles, swirl, and other factors caused by bends in pipes can lead quickly to inaccurate readings. But sometimes there is not enough space to have straight inlet conditions for accurate readings.

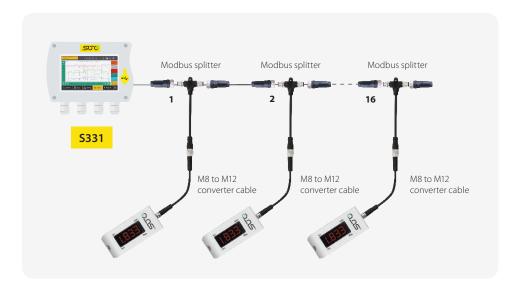
The highly engineered flow conditioner solves this problem. Unlike a standard flow conditions disk, the 3D design of the flow conditioner allows measurements with no additional straight inlet piping at all. Thanks to the innovative mechanical design, the pressure loss is negligible small (<30 hPa), offering high accurate measurements in difficult pipe conditions.



Connect several S418 to Modbus Master

The S418 with Modbus/ RTU interface can be easily daisy-chained to a Modbus Master device such as S331 by using RS-485 splitter (A554 3310) and the M8 to M12 converter cable (A553 0161). Through this method you can add up to 16 flow meters to the master.

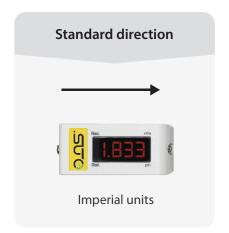
Remark: The S331 can maximum provide 10 W power to the connected devices. If more power is required a separate power supply is needed..



Display Direction







Measuring Range in Air (I/min)

| Range | Standard Configuration | | | | | | |
|--------------------|------------------------|------|------|------|------|-------|-------|
| Process connection | DN8 | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
| Standard range (S) | 250 | 1000 | 2000 | 3500 | 6000 | 10000 | 14000 |
| Low range (L) | 50 | 200 | 400 | 700 | 1200 | 2000 | 2800 |

Stated measuring ranges for S418 under following conditions:

- Standard flow in air in I/min
- Reference pressure: 1000 mbar
- Reference Temperature: +20 °C

Measuring ranges in Nitrogen are different. Please contact us for details at sales@suto-itec.com



Dimensions

| Dimensions in mm | a | b | c | d | е |
|------------------|------|-------|-------|------|------|
| DN8/DN15 | 35.0 | 93.0 | 120.4 | 35.0 | 48.0 |
| DN20/DN25 | 48.0 | 106.0 | 178.0 | 48.0 | 61.0 |
| DN32 | 60.0 | 118.0 | 222.0 | 60.0 | 73.0 |
| DN40 | 72.0 | 130.0 | 252.0 | 72.0 | 85.0 |
| DN50 | 85.0 | 143.0 | 310.0 | 85.0 | 98.0 |



Technical Data

| Measurement | |
|-----------------------|---|
| Flow | |
| Accuracy | 1.5 % o.RDG ±0.3 % FS |
| Selectable units | l/min, cfm, kg/h, m3/h |
| Measuring range | see table on the previous page |
| Repeatability | 0.5 % o.RDG |
| Sensor | Thermal mass flow sensor |
| Sampling rate | 10/sec |
| Turndown ratio | 100:1 |
| Response time (t90) | 0.5 sec |
| Consumption | |
| Selectable units | m³, ft³, l, kg |
| Pressure | |
| Accuracy | 0.5 % FS |
| Selectable units | bar, psi |
| Measuring range | 0 16 bar(g) |
| Sensor | Piezo resistive sensor |
| Reference conditions | |
| Selectable conditions | 20 °C 1000 mbar (ISO1217), 0 °C 1013 mbar (DIN1343) freely adjustable |

| Signal / Interface & Supply | | |
|-----------------------------|--|--|
| Analog output | | |
| Signal | 4 20 mA (4-wire), isolated | |
| Scaling | 0 max flow freely adjustable | |
| Load | Max 250 Ω | |
| Update rate | 3/sec | |
| Pulse output | | |
| Signal | Switch output, normally open, max 30 VDC, 200 mA | |
| Scaling | 1 pulse per consumption unit | |
| Fieldbus | | |
| Protocol | Modbus/RTU | |
| Supply | | |
| Voltage supply | 15 30 VDC | |
| Current consumption | 120 mA @ 24 VDC | |
| Data interface | | |
| Connection | USB micro | |

| General data | |
|-----------------------|--|
| Configuration | |
| Wireless | S4C-FS App for mobile phones |
| PC Software | S4A PC software for download and data analyzes |
| Display | |
| Integrated | 4 digit LED |
| Data Logger | |
| Storage | 8 Mio. values |
| Material | |
| Process connection | Aluminum alloy or SUS316L/1.4404 |
| Housing | PC + ABS |
| Sensor | Ceramic, glass coated |
| Metal parts | Aluminum alloy or SUS316L/1.4404 |
| Miscellaneous | |
| Electrical connection | 2 x M8 (4 pole) |
| Protection class | IP54 |
| Approvals | CE, RoHS, FCC |
| Process connection | G-thread |
| Weight | 0.45 2.36 kg (depends on model) |

| Operating conditio | ns |
|-----------------------|---|
| Medium | Air, N_2 , O_2 , CO_2 and other gases |
| Medium quality | ISO 8573: 4.4.3 or better |
| Medium temperature | 0 50 °C |
| Medium humidity | < 90 % rH, no condensation |
| Operating pressure | 0 16 bar(g) |
| Ambient temperature | 0 50 °C |
| Ambient humidity | < 95 % rH |
| Storage temperature | -30 70 °C |
| Transport temperature | -30 70 °C |
| Pipe sizes | DN8, DN15, DN20, DN25, DN32, DN40, DN50 |



Ordering



Please use the following tables to assist in placing your order with our sales staff.

S418 Compact Thermal Mass Flow Meter (Pro-Inline)

| S418 Compact Thermal Mass Flow Meter with integrated data logger, Ginner thread, 24 VDC, 5 m cable with M8 connector and open ends included Size + Pressure sensor option S695 4180 DN8, Aluminium S695 4181 DN15, Aluminium S695 4181 DN15, Aluminium S695 4182 DN20, Aluminium S695 4184 DN32, Aluminium S695 4184 DN32, Aluminium S695 4185 DN8, Aluminium S695 4197 DN40, Aluminium S695 4198 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4186 DN15, Aluminium, Pressure sensor 16 bar(g) S695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4180 DN15, Stainless steel S695 4181 DN15, Stainless steel S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainl | Order No. | Description |
|--|-------------|--|
| cable with M8 connector and open ends included Size + Pressure sensor option S695 4180 DN8, Aluminium S695 4181 DN15, Aluminium S695 4182 DN20, Aluminium S695 4182 DN20, Aluminium S695 4183 DN25, Aluminium S695 4184 DN32, Aluminium S695 4197 DN40, Aluminium S695 4198 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4185 DN8, Aluminium, Pressure sensor 16 bar(g) S695 4186 DN15, Aluminium, Pressure sensor 16 bar(g) S695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4180 DN8, Stainless steel S695 4181 DN15, Stainless steel S695 4181 DN25, Stainless steel S695 418 DN25, Stainless steel S695 418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN26, Stainless steel, Pressure sens | | S418 Compact Thermal Mass Flow Meter with |
| Size + Pressure sensor option 6695 4180 DN8, Aluminium 6695 4181 DN15, Aluminium 6695 4182 DN20, Aluminium 6695 4183 DN25, Aluminium 6695 4184 DN32, Aluminium 6695 4197 DN40, Aluminium 6695 4198 DN50, Aluminium, Pressure sensor 16 bar(g) 6695 4185 DN8, Aluminium, Pressure sensor 16 bar(g) 5695 4186 DN15, Aluminium, Pressure sensor 16 bar(g) 5695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) 5695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) 5695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) 5695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) 5695 4199 DN80, Stainless steel 5695 419 DN8, Stainless steel 5695 418 DN15, Stainless steel 5695 418 DN20, Stainless steel 5695 418 DN20, Stainless steel 5695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) 5695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) 5695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) | S695 418 | integrated data logger, G inner thread, 24 VDC, 5 m cable with M8 connector and open ends included |
| S695 4181 DN15, Aluminium S695 4182 DN20, Aluminium S695 4183 DN25, Aluminium S695 4197 DN40, Aluminium S695 4197 DN40, Aluminium S695 4198 DN50, Aluminium, S695 4185 DN8, Aluminium, Pressure sensor 16 bar(g) S695 4186 DN15, Aluminium, Pressure sensor 16 bar(g) S695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 418 DN15, Stainless steel S695 418 DN15, Stainless steel S695 418 DN25, Stainless steel S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S69 | Size + Pres | |
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| S695 4183 DN25, Aluminium S695 4184 DN32, Aluminium S695 4197 DN40, Aluminium S695 4198 DN50, Aluminium S695 4185 DN8, Aluminium, Pressure sensor 16 bar(g) S695 4186 DN15, Aluminium, Pressure sensor 16 bar(g) S695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4190 DN8, Stainless steel S695 4190 DN8, Stainless steel S695 4118 DN15, Stainless steel S695 418 DN20, Stainless steel S695 418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) A1453 Low range version | S695 4182 | DN20, Aluminium |
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| S695 4186 DN15, Aluminium, Pressure sensor 16 bar(g) S695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 1418 DN8, Stainless steel S695 1418 DN20, Stainless steel S695 4418 DN20, Stainless steel S695 3418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sens | S695 4198 | DN50, Aluminium |
| S695 4187 DN20, Aluminium, Pressure sensor 16 bar(g) S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN50, Aluminium, Pressure sensor 16 bar(g) S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 418 DN8, Stainless steel S695 1418 DN15, Stainless steel S695 3418 DN20, Stainless steel S695 3418 DN8, Stainless steel S695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 D | S695 4185 | DN8, Aluminium, Pressure sensor 16 bar(g) |
| S695 4188 DN25, Aluminium, Pressure sensor 16 bar(g) S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 0418 DN8, Stainless steel S695 1418 DN15, Stainless steel S695 2418 DN20, Stainless steel S695 3418 DN25, Stainless steel S695 4418 DN8, Stainless steel S695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel S695 7418 DN26, Stainless steel S695 7 | S695 4186 | DN15, Aluminium, Pressure sensor 16 bar(g) |
| S695 4189 DN32, Aluminium, Pressure sensor 16 bar(g) S695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 0418 DN8, Stainless steel S695 1418 DN15, Stainless steel S695 2418 DN20, Stainless steel S695 3418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 4418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) Range Al465 Al465 Standard range version Output Al465 Al465 Stall & Alael & | S695 4187 | DN20, Aluminium, Pressure sensor 16 bar(g) |
| 5695 4199 DN40, Aluminium, Pressure sensor 16 bar(g) 5695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) 5695 0418 DN8, Stainless steel 5695 1418 DN15, Stainless steel 5695 2418 DN20, Stainless steel 5695 3418 DN25, Stainless steel 5695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) 5695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) 5695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) 5695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 Standard range version Output A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1455 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO₂ A1010 N₂O A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1017 C₃ H₃ </th <th>S695 4188</th> <th>DN25, Aluminium, Pressure sensor 16 bar(g)</th> | S695 4188 | DN25, Aluminium, Pressure sensor 16 bar(g) |
| S695 4209 DN50, Aluminium, Pressure sensor 16 bar(g) S695 0418 DN8, Stainless steel S695 1418 DN15, Stainless steel S695 2418 DN20, Stainless steel S695 3418 DN25, Stainless steel S695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 Standard range version Output A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1455 S418: Modbus/RTU output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO₂ A1010 N₂O A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) <th>S695 4189</th> <th>DN32, Aluminium, Pressure sensor 16 bar(g)</th> | S695 4189 | DN32, Aluminium, Pressure sensor 16 bar(g) |
| \$695 0418 DN8, Stainless steel \$695 1418 DN15, Stainless steel \$695 2418 DN20, Stainless steel \$695 3418 DN25, Stainless steel \$695 3418 DN8, Stainless steel, Pressure sensor 16 bar(g) \$695 4418 DN15, Stainless steel, Pressure sensor 16 bar(g) \$695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 7418 DN20, Stainless steel, Pressure sensor 16 bar(g) \$695 | S695 4199 | DN40, Aluminium, Pressure sensor 16 bar(g) |
| 5695 1418 DN15, Stainless steel 5695 2418 DN20, Stainless steel 5695 3418 DN25, Stainless steel 5695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) 5695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) 5695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) 5695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 A1465 Standard range version Output A1453 A1453 Low range version Output A1455 A18: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A A1007 Air A1008 CO2 A1009 O2 (Oil- & grease-free cleaned) A1010 N2 A1011 N2O A1012 Argon A1013 Natural Gas A1014 H2 (Real gas calibration) A1015 Other Gas (Please specify) A1016 | S695 4209 | DN50, Aluminium, Pressure sensor 16 bar(g) |
| S695 2418 DN20, Stainless steel S695 3418 DN25, Stainless steel S695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 A1465 Standard range version Output A1453 A1453 Low range version Output A1455 A18: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 A1000 Air A1001 Air A1002 Air A1003 N₂Q A1011 N₂Q A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃ H₃ | S695 0418 | DN8, Stainless steel |
| S695 3418 DN25, Stainless steel S695 4418 DN8, Stainless steel, Pressure sensor 16 bar(g) S695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 Standard range version A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO₂ A1009 O₂ (Oil- & grease-free cleaned) A1010 N₂ A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃ H₃ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | S695 1418 | DN15, Stainless steel |
| \$695 4418DN8, Stainless steel, Pressure sensor 16 bar(g)\$695 5418DN15, Stainless steel, Pressure sensor 16 bar(g)\$695 6418DN20, Stainless steel, Pressure sensor 16 bar(g)\$695 7418DN25, Stainless steel, Pressure sensor 16 bar(g)\$695 7418DN26, Stainless steel, Pressure sensor 16 bar(g)\$695 7418< | S695 2418 | DN20, Stainless steel |
| S695 5418 DN15, Stainless steel, Pressure sensor 16 bar(g) S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 Standard range version A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO ₂ A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | S695 3418 | DN25, Stainless steel |
| S695 6418 DN20, Stainless steel, Pressure sensor 16 bar(g) S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 Standard range version A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO ₂ A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A103 No 2nd Gas Units A1467 With SI units Display direction A1463 Standard display direction (left to right) | S695 4418 | DN8, Stainless steel, Pressure sensor 16 bar(g) |
| S695 7418 DN25, Stainless steel, Pressure sensor 16 bar(g) Range A1465 Standard range version A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO ₂ A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | S695 5418 | DN15, Stainless steel, Pressure sensor 16 bar(g) |
| Range A1465 Standard range version A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO ₂ A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | S695 6418 | DN20, Stainless steel, Pressure sensor 16 bar(g) |
| A1465 Standard range version A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO ₂ A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | S695 7418 | DN25, Stainless steel, Pressure sensor 16 bar(g) |
| A1453 Low range version Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO ₂ A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | Range | |
| Output A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 A1008 CO2 A1009 O2 (Oil- & grease-free cleaned) A1010 N2 A1011 N2O A1012 Argon A1013 Natural Gas A1014 H2 (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C3 H8 Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1465 | Standard range version |
| A1455 S418: Analog 4 20 mA, Pulse output A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 Air A1008 CO2 A1009 O2 (Oil- & grease-free cleaned) A1010 N2 A1011 N2O A1012 Argon A1013 Natural Gas A1014 H2 (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C3 H8 Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1453 | Low range version |
| A1456 S418: Modbus/RTU output A1457 S418: M-Bus output Fluid Medium 1 A1007 A1008 CO2 A1009 O2 (Oil- & grease-free cleaned) A1010 N2 A1011 N2O A1012 Argon A1013 Natural Gas A1014 H2 (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C3 H8 Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | Output | |
| A1457 S418: M-Bus output Fluid Medium 1 A1007 A1008 CO₂ A1009 O₂ (Oil- & grease-free cleaned) A1010 N₂ A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃ H₂ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1455 | S418: Analog 4 20 mA, Pulse output |
| Fluid Medium 1 A1007 Air A1008 CO₂ A1009 O₂ (Oil- & grease-free cleaned) A1010 N₂ A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃ H₂ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1456 | S418: Modbus/RTU output |
| A1007 Air A1008 CO₂ A1009 O₂ (Oil- & grease-free cleaned) A1010 N₂ A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃H₀ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1457 | S418: M-Bus output |
| A1008 CO₂ A1009 O₂ (Oil- & grease-free cleaned) A1010 N₂ A1011 N₃O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃ H₃ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | Fluid Medi | um 1 |
| A1009 O ₂ (Oil- & grease-free cleaned) A1010 N ₂ A1011 N ₂ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1007 | Air |
| A1010 N ₂ A1011 N ₃ O A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1008 | CO ₂ |
| A1011 N₂O A1012 Argon A1013 Natural Gas A1014 H₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C₃Hଃ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1009 | O ₂ (Oil- & grease-free cleaned) |
| A1012 Argon A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1010 | N_2 |
| A1013 Natural Gas A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1011 | N_2O |
| A1014 H ₂ (Real gas calibration) A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1012 | Argon |
| A1015 Other Gas (Please specify) A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1013 | Natural Gas |
| A1016 He (Real gas calibration) A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1014 | H ₂ (Real gas calibration) |
| A1017 C ₃ H ₈ Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1015 | |
| Fluid Medium 2 (same selections as above) A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1016 | - |
| A1003 No 2nd Gas Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | | |
| Units A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | | um 2 (same selections as above) |
| A1467 With SI units A1459 With imperial units Display direction A1463 Standard display direction (left to right) | A1003 | No 2nd Gas |
| A1459 With imperial units Display direction A1463 Standard display direction (left to right) | Units | |
| Display direction A1463 Standard display direction (left to right) | A1467 | With SI units |
| A1463 Standard display direction (left to right) | A1459 | With imperial units |
| A1463 Standard display direction (left to right) | Display dir | ection |
| | | |
| A1461 Reverse display direction | A1461 | Reverse display direction |

S418 Accessories

| Order No. | Description |
|-----------|--|
| A554 0109 | Mains power supply 100-240 VAC / 24 VDC, 0.5 A, 2 m cable with M8 connector |
| A553 0137 | Connection cable to S551, 5 m |
| M599 7020 | S4A data analysis software, for data logger S418 |
| A553 0161 | M8 to M12 converter cable for Modbus splitter |
| A553 0171 | Cable to connect power bank, 1.8 m, USB-C connector for power bank, M8 connector |
| A554 3310 | RS-485 / Modbus splitter |

Mobile Power

S418 powered by power bank with connection cable A553 0171

Note: power bank must be sourced locally due to shipping restrictions [USB-C, 20 V, min. 100 mA]



Ordering Example

S418 DN25, Aluminium, without pressure sensor, Example Standard range, Modbus/RTU, CO₂, No 2nd gas, with SI units, Standard display direction

Order Code S695 4183.A1465.A1456.A1008.A1003.A1467.A1463



