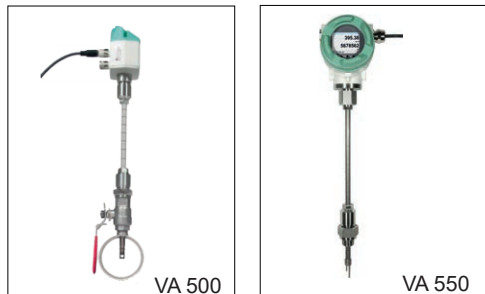




Suitable sensors for DS 500 mobile, DS 400 mobile, PI 500, DP 510, LD 510

Flow meters for installation and removal under pressure (insertion type)



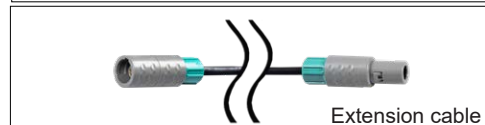
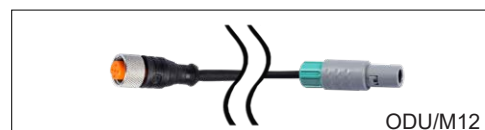
FLOW METERS INSERTION-VERSION	ORDER NO.
VA 500 flow meter, max. version (607 ft/s), probe length 220 mm, incl. 16 ft connection cable to mobile devices	0695 1124
VA 500 flow meter, high-speed version (735 ft/s), probe length 220 mm, incl. 16 ft connection cable to mobile devices	0695 1125
VA 550 Flow meter, measuring head in robust aluminum die casting housing	0695 0550 + order code A_...M..._

Inline flow meter



FLOW METERS INLINE VERSION	ORDER NO.
Flow meter VA 520 with integrated measuring section, (R 1/4")	0695 0520
Flow meter VA 520 with integrated measuring section, (R 1/2")	0695 0521
Flow meter VA 520 with integrated measuring section, (R 3/4")	0695 0522
Flow meter VA 520 with integrated measuring section, (R 1")	0695 0523
Flow meter VA 520 with integrated measuring section, (R 1 1/4")	0695 0526
Flow meter VA 520 with integrated measuring section, (R 1 1/2")	0695 0524
Flow meter VA 520 with integrated measuring section, (R 2")	0695 0525
Inline flow meter VA 570 with integrated 1/2" measuring section	0695 0570 + order code A_...K_
Inline Flow meter VA 570 with integrated 3/4" measuring section	0695 0571
Inline Flow meter VA 570 with integrated 1" measuring section	0695 0572
Inline Flow meter VA 570 with integrated 1 1/4" measuring section	0695 0573
Inline flow meter VA 570 with integrated 1 1/2" measuring section	0695 0574
Inline Flow meter VA 570 with integrated 2" measuring section	0695 0575

DEW POINT SENSORS	ORDER NO.
FA 510 dew point sensor, -112 to 68 °Ftd incl. measuring chamber mobile and 16 ft connection cable to mobile devices	0699 1510
FA 510 dew point sensor, -4...122 °Ftd incl. measuring chamber mobile and 16 ft connection cable to mobile devices	0699 1512



CONNECTION CABLE FOR VA 500/520 AND FA 510 SENSORS	ORDER NO.
Connection cable for VA / FA sensors to mobile devices, ODU/M12, 16 ft	0553 1503
Extension cable for mobile instruments, ODU / ODU, 32 ft	0553 0504



CALIBRATION CERTIFICATES FOR FLOW METERS AND DEW POINT SENSORS	ORDER NO.
5 point precision calibration for flow sensors incl. ISO certificate	3200 0001
Precision calibration at -40 °Ftd with ISO certificate	0699 3396



Suitable sensors for DS 500 mobile, DS 400 mobile, PI 500, DP 510, LD 510



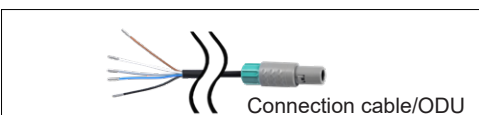
PRESSURE PROBES WITH 4...20 mA ANALOG OUTPUT	± 1%	± 0,5%
	ACCURACY	ACCURACY
Standard pressure probe CS 16, 0...232 psi	0694 1886	0694 3555
Standard pressure probe CS 40, 0...580 psi	0694 0356	0694 3930
Standard pressure probe CS 1.6, 0...23 psi abs.		0694 3550
Standard pressure probe CS 10, 0...145 psi	0694 3556	0694 3554
Standard pressure probe CS 100, 0...1450 psi		0694 3557
Standard pressure probe CS 250, 0...3625 psi		0694 3558
Standard pressure probe CS 400, 0...5801 psi		0694 3559
Precision pressure probe CS -14.5 to 217 psi ± 0.5 % accuracy of. f.s.		0694 3553
Differential pressure probe 23 psi diff.		0694 3561
Calibration certificate pressure, 5 calibration points for the whole measuring range	3200 0004	



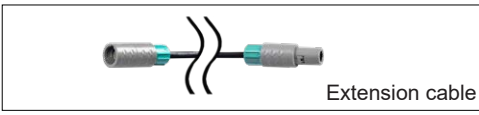
DIGITAL PRESSURE SENSORS	± 1%	± 0,5%
	ACCURACY	ACCURACY
Digital pressure probe DPS 16, 0...232 psi RS 485, G1/2"	0694 2886	0694 4555
Digital pressure probe DPS 16, 0...232 PSI RS 485, NPT 1/2"	0694 3886	0694 5555



TEMPERATURE SENSORS	ORDER NO.
Bendable temperature sensor PT 100 (2-wire) class B, length: 11.81 inch, d=0.11 inch, -94...1022 °F, connection cable 2 m PFA with ODU plug (8-pin) to mobile devices	0604 0200
Screw-in temperature sensor PT 100 class A, length 11.81 inch, d = 0.24 inch, with measuring transducer 4...20 mA = -94...1022 °F (2-wire)	0604 0201
Cross-band surface probe, thermocouple type K with measuring transducer 4...20 mA = 32...356 °F, 6.56 ft cable PVC with ODU plug (8-pole) to mobile devices	0604 0202
Cable temperature sensor PT 100 class A (4-wire), length: 11.81 inch, d = 0.24 mm, -94...500 °F, 16 ft connection cable PFA with open ends	0604 0205
Cable temperature sensor PT 100 class A (4-wire), length: 3.94 Inch mm, d = 0.24 ft, -94...500 °F, 16 ft connection cable PFA with open ends	0604 0206
Cable temperature sensor PT 100 class A (4-wire), length: 7.87 inch, d = 0.24 ft, -70...-94...500 °F, 16 ft connection cable PFA with open ends	0604 0207
Magnetic surface temperature sensor, holding magnet 1.54 x 1.02 x 0.98 Inch, PT 100 class B (2-wire), -22...356 °F, 16 ft connection cable PFA with open ends	0604 0208
Compression fitting: 0.24 ft, G 1/2" PTFE clamping ring pressure-tight up to 145 psi. Material: stainless steel, application area: max. 500 °F	0554 0200
Compression fitting: 0.24 ft; G 1/2" stainless steel clamping ring. Pressure-tight up to 232 psi, material: stainless steel, application area: max. + 500 °F	0554 0201
Calibration certificate temperature, 2 calibration points	0520 0180

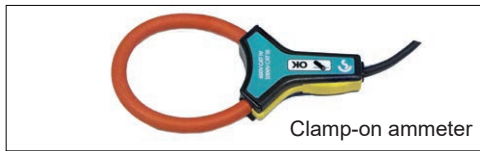


CONNECTION CABLES FOR PRESSURE SENSORS / TEMPERATURE SENSORS	ORDER NO.
Connection cable for pressure, temperature or third-party sensors on mobile devices, ODU/open ends, 16 ft	0553 0501
Connection cable for pressure, temperature or third-party sensors on mobile devices, ODU/open ends, 32 ft	0553 0502
Extension cable for mobile instruments, ODU / ODU, 32 ft	0553 0504
ODU plug for connection to mobile devices	Z604 0104





Suitable sensors for DS 500 mobile, DS 400 mobile, PI 500, DP 510, LD 510



Clamp-on ammeter

CLAMP-ON AMMETERS

- Clamp-on ammeter 0...1000 A TRMS incl. 10 ft connection cable
- Clamp-on ammeter 0...400 A TRMS incl. 10 ft connection cable

ORDER NO.

- 0554 0519
- 0554 0511

Suitable sensors for DS 500 mobil, DS 400 mobil, PI 500



CURRENT/EFFECTIVE POWER METER

- CS PM 600 mobile current/effective power meter up to 100 A**
- CS PM 600 mobile current/effective power meter up to 600 A**

ORDER NO.

- 0554 5341
- 0554 5342

- Mobile current/effective power meter with 3 external current transformers for big machines and systems
- External current transformers for encompassing the phases (100 A or 600 A)
- External magnetic measuring tip for picking off the voltage – measures kW, kWh, cos, phi, Var, kVA
- Data transfer to DS 500 mobile / DS 400 mobile via Modbus
- Incl. connection cable for mobile current/effective power meter, 16 ft

Current transformer 100A/1A consisting of 3 transformers for mobile instruments

Z554 0001

Current transformer 600A/1A consisting of 3 transformers for mobile instruments

Z554 0002

Current transformer 1000A/1A consisting of 3 transformers for mobile instruments

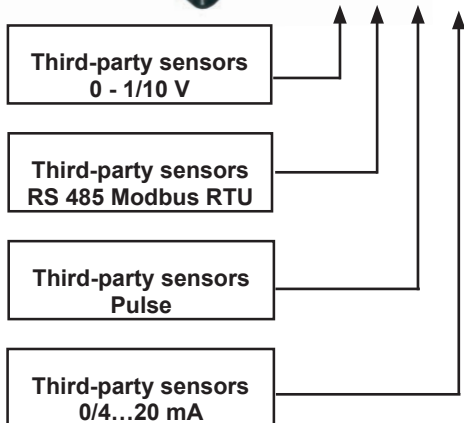
Z554 0003



ANY THIRD-PARTY SENSOR CONNECTABLE

Additionally, any third-party sensors with the following signal outputs can be connected:

- 4-20 mA
- 0-20 mA
- 0-1 V/0-10 V/0-30 V
- Pt 100 (2- or 3-wire)
- Pt 1000 (2- or 3-wire)
- Pulse outputs (e. g. of gas meters)
- Frequency output
- Modbus protocol





CS PM 600 - Mobile current/effective power meter suitable for: DS 500 mobile / DS 400 mobile / PI 500

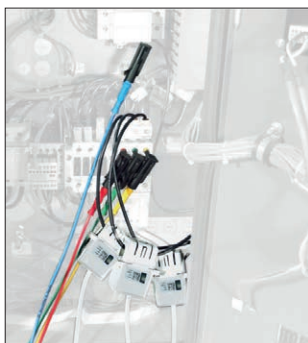
Measures voltage, current and calculates:

Effective power [kW]
 Apparent power [kVA]
 Reactive power [kVar]
 Active energy [kWh]
 cos phi



Current transformer can be opened

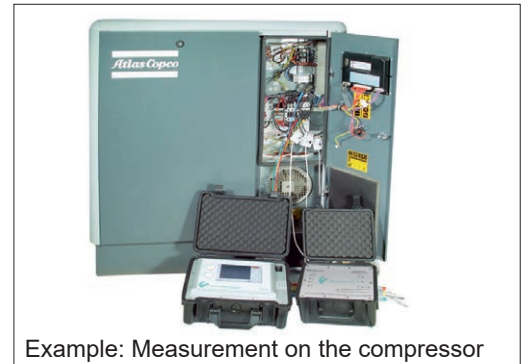
Magnetic voltage measuring tips electrically isolated



Special features:

- Magnetic voltage measuring tips for picking off the voltage during operation
- Hinged current transformers encompass the conductors of the phases L1, L2, L3. This can also be done during operation

All measured data are transferred digitally (Modbus) to DS 500 mobile/ DS 400 mobile and can be recorded there.



Example: Measurement on the compressor

TECHNICAL DATA CS PM 600

Parameters:	Voltage (Volt) Current (Ampere) Cos phi Effective power (kW) Apparent power (kVA) Reactive power (kVar) Active energy (kWh) Power frequency (Hz) All parameters are transferred digitally to DS 500 mobile /DS 400 mobile
Accuracy current measurement:	Threshold values for current deviation. Loss angle according to IEC 60044-1. Current deviation in % at rated current in 120% 1 100% 1 20% 1.5 5% 3
Accuracy active energy:	IEC 62053-21 Class 1
Sensor connections:	3 x current transformers (L1,L2,L3,N) 4 x voltage measurement (L1,L2,L3)
Interfaces:	RS 485 (Modbus protocol)
Measuring range:	Voltage EU: 400V/3/50Hz Voltage US: 480V/3/60Hz
Size current transformers:	Current measurement max. 100 A or 600 A 100 A / 1 A (max. 0.94 inch wire), 600 A / 1 A (max. 1.42 inch wire)
Dimensions case:	10.6 x 8.8 x 6.1 inch (B x H x T)
Operating temperature:	14...104 °F

DESCRIPTION	ORDER NO.
CS PM 600 mobile current/effective power meter 100 A	0554 5341
CS PM 600 mobile current/effective power meter 600 A	0554 5342
<ul style="list-style-type: none"> • Mobile current/effective power meter with 3 external current transformers for big machines and systems • External current transformers for encompassing the phases (100 A or 600 A) • External magnetic measuring tip for measuring the voltage • Measures kW, kWh, cos, phi, kVar, kVA • Data transfer via Modbus • Incl. connection cable for mobile current/effective power meter to mobile instruments, 16 ft 	
Current transformer 100A/1A consisting of 3 transformers for mobile instruments	Z554 0001
Current transformer 600A/1A consisting of 3 transformers for mobile instruments	Z554 0002
Current transformer 1000A/1A consisting of 3 transformers for mobile instruments	Z554 0003