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Flow Sensor FF

1.1

\rightarrow FF

GENERAL DESCRIPTION:

The FFC 40 Flow Sensor is a general-purpose precision device. It measures with constant precision and guarantees maximum accuracy in the measurement of fluid volumes. Its integrated electronic pulse emitter gives an additional guarantee for a practically unlimited useful life. This Flow Sensor measures with great success spirits or chemically-aggressive products and therefore finds use in a lot of industrial sectors.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	FFJG 40 Arnite 6mm	FFJG 40 Arnite 1/4" (6.35mm)	FFJG 50 Arnite 8mm (5/16")
Part number:	934-5540	934-5541	934-5550
Connections:	2 x John Guest 6mm	2 x John Guest 1/4" (6.35mm)	2 x John Guest 8mm (5/16")
Housing:	PBT 35% GF (Arnite)	PBT 35% GF (Arnite)	PBT 35% GF (Arnite)
O-ring:	MVQ (silicon)	MVQ (silicon)	MVQ (silicon)
Mounting position:	freely selectable	freely selectable	freely selectable
Nozzle size:	Ø 4.0mm	Ø 4.0mm	Ø 5.0mm
Turbine:	PVDF 2 Magnets	PVDF 2 Magnets	PVDF 2 Magnets
Temperature range:	-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 65 °C (14 °F to 149 °F)
Flow rate:	0.22 - 7.75 I/min	0.22 - 7.75 l/min	0.34 - 11.5 l/min
Dimensions in mm (LxBxH):	90.5 x 56 without MSD (67 with MSD) x 64	90.5 x 56 without MSD (67 with MSD) x 64	90.5 x 56 without MSD (67 with MSD) x 64
Bearing pin:	jewelled bearing: Inox 1.4404, Ruby	jewelled bearing: Inox 1.4404, Ruby	jewelled bearing: Inox 1.4404, Ruby
Special features:	By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are freely selectable. Hose diameters from 6.0mm can be directly connected.	By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are freely selectable. Hose diameters from 1/4" (6.35mm) can be directly connected.	By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are freely selectable. Hose diameters from 8mm (5/16") can be directly connected.

JG 40 SM Arnite 6mm	FFJG 40 SM Arnite 1/4" (6.35mm)	FF
t number 981-5540 same device as above	Part number 981-5541 same device as above	Pa
with foam dotaction	but with foam dotoction	hu

FJG 50 SM Arnite 8mm (5/16")

Part number 981-5550 same device as above out with foam detection.

FFJ

Part but

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MATERIAL:

• Magnet Ceramic Sr Fe O (not contact with the medium) INCLUDED IN THE DELIVERY:

• 3-pin solenoid socket Item number 941-0002/3

ELECTRICAL CONNECTION RATINGS:

- Power supply without foam detection 4.5 24 VDC with foam detection 10 16 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- Leakage current max. $10 \,\mu\text{A}$
- Signal Square-wave output
- Duty Cycle 50% / \pm 3%

- Repetition $< \pm 0.25\%$
- Pressure range 5.5 bar at 20 $^{\circ}$ C 79 psi at 68 $^{\circ}$ F

APPROVALS:



4-pin solenoid socket Item number 941-0002/4



TECHNICAL DATA:

• Measuring accuracy \pm 2%









FFJG 50 Arnite 3/8"	FJG 50 Arnite 3/8"	
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FFJG 50 Arnite 3/8"	FFJG 50 Arnite 10mm
934-6550	934-5551

FFG	60	Arnite
934-	256	0

freely selectable

1.46 - 16.20 l/min

Ø 6.0mm

FFG 60 PVDF 934-2360 2 x G1/4" external thread

2 x John Guest 3/8" PBT 35% GF (Arnite) MVQ (silikon)

freely selectable

MVQ (silikon) freely selectable

2 x John Guest 10mm

PBT 35% GF (Arnite) PBT 35% GF (Arnite) MVQ (silikon)

2 x G1/4" external thread

FPM (Viton) Horizontal recommended

Ø 6.0mm

Bearing pin: PCTFE

PVDF

Ø 5.0mm Ø 5.0mm **PVDF 2 Magnets**

PVDF 2 Magnets -10 °C to 65 °C (14 °F to 149 °F)

0.34 - 11.5 l/min

PVDF 2 Magnets -10 °C to 65 °C (14 °F to 149 °F) **PVDF 4 Magnets** -10 °C to 100 °C (14 °F to 212 °F)

0.34 - 11.5 l/min

-10 °C to 65 °C (14 °F to 149 °F)

90.5 x 56 without MSD (67 with MSD) x 64

94 x 56 without MSD (67 with MSD) x 64

jewelled bearing: Inox 1.4404, Ruby

0.35 - 15.75 l/min 94 x 56 without MSD (67 with MSD) x 63

jewelled bearing: Inox 1.4404, Ruby By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are freely selectable. Hose diameters

from 3/8" (9.5mm) can be directly connected.

90.5 x 56 without MSD (67 with MSD) x 64

jewelled bearing: Inox 1.4404, Ruby By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are freely selectable. Hose diameters

from 10.0mm can be directly connected.

By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are also freely selectable.

Able to withstand high temperatures, good resistance to chemicals. Compact design, great working range. Inlet and outlet are freely

selectable. Employed in the semiconductor (wafer polishing) sector due to the high purity of materials used.

FFJG 50 SM Arnite 3/8"

Part number 981-6550 same device as above but with foam detection.

FFJG 50 SM Arnite 10mm

Part number 981-5551 same device as above but with foam detection.

FFG 60 SM Arnite

Part number 981-2560 same device as above but with foam detection.

Flow Sensor FH

2.1

 \rightarrow FH

GENERAL DESCRIPTION:

The FH Flow Sensor is a general-purpose device; its working range can be individually defined according to its nozzle size. It is employed for measuring, regulating or metering and guarantees most precise measurement of fluid quantities. In addition, a pulse generator integrated into the Flow Sensor guarantees an almost unrestricted life span.

Specific applications: Inlet and outlet on the same side, compact design, great working range, depending on the nozzle diameter.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	FH 12 oc Green-Brass	FHF 12 oc Green-Brass	FHI 10 R1.2K Green-Brass
Part number:	931-0612	931-2612	974-1610
Nozzle size:	Ø 1.2mm	Ø 1.2mm	Ø 1.0mm
Flow rate:	0.052 - 0.80 l/min	0.052 - 0.80 l/min	0.037 - 0.57 l/min
Dimensions in mm (LxBxH):	55 x 40 x 46 without MSD (65.50 with MSD)	55 x 40 x 46.60	55 x 40 x 46 without MSD (65.50 with MSD)
Electrical connection:	3 Pin-AMP 2.8mm x 0.8mm	Faston AMP 6.3/2.8mm	3 Pin-AMP 2.8mm x 0.5mm
Special features:			Integrated 1.2K pull-up resistor.

FH 30 Green-Brass Viton

FHF 25 Green-Brass

FHI 12 R1.8K LED Green-Brass

Part number 931-0630/VITON same device as above but with nozzle size \emptyset 3.0mm and FPM (Viton) 0-ring.

Part number 931-2625 same device as above but with nozzle size \emptyset 2.5mm

Part number 974-1612/LED same device as above but with nozzle size Ø 1.2mm and LED

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MATERIAL:

- Housing Green Brass (lead-free brass)
- O-ring MVQ (silicon)
- Bearing pin Inox 1.4305 (18/8)
- Nozzle Inox 1.4305 (18/8)
- Turbine PVDF
- Magnet Ceramic Sr Fe O (in contact with the medium)

• 3-pin solenoid socket Item number 941-0002/3



ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- \bullet Leakage current max. 10 μ A
- Signal Square-wave output
- \bullet Duty Cycle 50% / \pm 5%

APPROVALS:

OPTIONS:





TECHNICAL DATA:

- Connections 2 x G1/4" internal thread
- Flow rate 0.025 12 l/min depending on the nozzle diameter
- ullet Measuring accuracy $\pm~2\%$
- Repetition $<\pm$ 0.25%
- \bullet Temperature range -10 °C to 100 °C 14 °F to 212 °F
- Pressure range 20 bar at 20 °C 290 psi at 68 °F

· Mounting position horizontal recommended

• Nozzle size Ø 0.7, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 6.5mm







FHF 12 R1.2K Green-Brass

FH 12 AMP-Plug Green-Brass



974-4612	974-2612	973-3612	973-1612
Ø 1.2mm	Ø 1.2mm	Ø 1.2mm	Ø 1.2mm
0.052 - 0.80 l/min	0.052 - 0.80 l/min	0.052 - 0.80 l/min	0.052 - 0.80 l/min
55 x 40 x 46 without MSD (65.50 with MSD)	55 x 40 x 46.60	55 x 40 x 43.5 without Cable (287 with Cable)	55 x 40 x 43.5 without Cable (267 with Cable)
3 Pin-AMP 2.8mm x 0.5mm	Faston AMP 6.3/2.8mm	Cable 3 pin to 105°C/221°F Plug CSC B 5041	Cable 3 pin to 105°C/221°F Molex MINI-FIT
Integrated 1.2K pull-up resistor. Connections	Integrated 1.2K pull-up resistor.		

2 x G1/8" internal thread.

Integrated 1.2K pull-up resistor.

FHI 10 R1.2K G1/8" Green-Brass

Part number 974-4610 same device as above but with nozzle size \emptyset 1.0mm

FHF 10 R1.2K Green-Brass

Part number 974-2610 same device as above but with nozzle size \emptyset 1.0mm

Flow Sensor FHK

3.1

\rightarrow FHK

GENERAL DESCRIPTION:

The FHK Flow Sensor is a general-purpose device; its working range can be individually defined according to its nozzle size. It is employed for measuring, regulating or metering and guarantees most precise measurement of fluid quantities. In addition, a pulse generator integrated into the Flow Sensor guarantees an almost unrestricted life span.

Specific applications: Inlet and outlet on the same side, compact design, great working range, depending on the nozzle diameter.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	FHK 10 Arnite	FHK 10 PVDF	FHK 20 PVDF Viton
Part number:	937-1510/01	937-1310/C014	937-1320/V01
Connections:	2 x G1/4" internal thread	2 x G1/4" internal thread	2 x G1/4" internal thread
Housing:	PBT 35% GF (Arnite)	PVDF	PVDF
O-ring:	MVQ (silicon)	FPM (Viton)	FPM (Viton)
Bearing pin:	Inox 1.4305 (18/8)	PCTFE	Inox 1.4305 (18/8)
Magnets:	2 x Ceramic Sr Fe O (in contact with the medium)	4 x Ceramic Sr Fe O (not in contact with the medium)	2 x Ceramic Sr Fe O (in contact with the medium)
Nozzle size:	Ø 1.0mm, Inox 1.4305	Ø 1.0mm, PTFE	Ø 2.0mm, Inox 1.4305
Temperature range:	-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 100 °C (14 °F to 212 °F)	-10 °C to 100 °C (14 °F to 212 °F)
Flow rate:	0.027 - 0.58 l/min	0.055 - 0.47 l/min	0.069 - 2.34 l/min
Dimensions in mm (LxBxH):	54 x 40 x 47.20 without MSD (66.60 with MSD)	54 x 39.75 x 46.90 without MSD (66.30 with MSD)	54 x 39.75 x 46.90 without MSD (66.30 with MSD)
Electrical connection:	3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.8mm
Special features:	Approvals: (NSF) CONFORMY	Employed in the semiconductor (wafer polishing) sector due to the high purity of materials used.	

FHK 12 Arnite FHK 33 PVDF FHK 15 PVDF Viton Part number 937-1315/V01 same device as above but with nozzle size \emptyset 1.5mm

Part number 937-1512/01 same device as above but with nozzle size \emptyset 1.2mm

Part number 937-1333/C014 same device as above but with nozzle size Ø 3.3mm

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MATERIAL:

• Turbine PVDF

OPTIONS:

• 3-pin solenoid socket Item number 941-0002/3

ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- \bullet Leakage current max. 10 μ A
- Signal Square-wave output
- Duty Cycle $50\%/\pm 5\%$

APPROVALS:



TECHNICAL DATA:

- Flow rate 0.041 10 l/min depending on the nozzle diameter
- \bullet Measuring accuracy $\pm~2\%$
- Repetition $< \pm 0.25\%$
- Pressure range 20 bar at 20 °C 290 psi at 68 °F
- Mounting position horizontal recommended
- G1/4" Ø 1.0, 1.2, 1.5, 2.0, 2.5, 3.3mm Flange Ø 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.6mm Nozzle size









EHK	20	PVDF	
ГПК	Zυ	PVUF	

60
FHK 33 Ryton EPDM

937-1833/AE012

2 x G1/4" internal thread

PPS 40% GF (Ryton)

1.39 - 5.36 l/min

3 Pin-AMP 2.8mm x 0.8mm

FHKC	12	Flange	Arnite

937-5512/03

Flange

FHK 10 PEEK

2 x G1/4" internal thread

Material: Turbine PFA

937-1210/P014

FHK 20 PVDF	
937-1320/CE012	

0.10 - 2.21 l/min

3 Pin-AMP 2.8mm x 0.8mm

PVDF

2 x G1/4" internal thread

EPDM	EPDM	MVQ (sili
PCTFE	Inox 1.4571	Inox 1.43
2 x Ceramis Sr Fe O (not in contact with the medium)	2 x Ceramic Sr Fe O (not in contact with the medium)	2 x Ceram
Ø 2.0mm, PTFE	Ø 3.3mm, PPS 40 % GF (Ryton)	Ø 1.2mm
-10 °C to 100 °C (14 °F to 212 °F)	-10 °C to 100 °C (14 °F to 212 °F)	-10 °C to

54 x 39.75 x 46.90 without MSD (66.30 with MSD) 54 x 40 x 47.20 without MSD (66.60 with MSD)

PBT 35% GF (Arnite)	PEEK
MVQ (silicon)	FPM (Vito

121 0270 01 (1111110)	
MVQ (silicon)	FPM (Viton)
Inox 1.4305	PEEK
2xCeramicSrFeO (in contact with the medium)	4x Ceramic Sr Fe O (not in contact with the medium)
Ø 1.2mm, Inox 1.4305	Ø 1.0mm, PEEK
-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 100 °C (14 °F to 212 °F)
0.031 - 0.77 l/min	0.055 - 0.47 l/min
46 x 59 x 40.70	54 x 39.75 x 46.90 without MSD (66.30 with MSD)
PANCON MAS-CON 156 MLSS	3 Pin-AMP 2.8mm x 0.8mm

FHK 25 PVDF

used.

Part number 937-1325/CE012 same device as above but with nozzle size \emptyset 2.5mm

Employed in the semiconductor (wafer polish-

ing) sector due to the high purity of materials

FHK 12 Ryton EPDM

Part number 937-1812/AE012 same device as above but with nozzle size Ø 1.2mm

Approvals: (NSE)

Flow Sensor FHKU

4.1

\rightarrow FHKU

GENERAL DESCRIPTION:

The FHKU Flow Sensor is a general-purpose device; its working range can be individually defined according to its nozzle size. It is employed for measuring, regulating or metering and guarantees most precise measurement of fluid quantities. In addition, a pulse generator integrated into the Flow Sensor guarantees an almost unrestricted life span.

Special features: Linear inlet and outlet, compact design, great working range, depending on the nozzle diameter.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	FHKU 40 G1/4" Arnite	FHKU 20 G1/4" Ryton	FHKUC 15 Ryton EPDM
Part number:	938-1540/01	938-1820/01	938-1815/AE032
Connections:	2 x G1/4" external thread	2 x G1/4" external thread	2 x G1/4" external thread
Housing:	PBT 35% GF (Arnite)	PPS 40% GF (Ryton)	PPS 40% GF (Ryton)
O-ring:	MVQ (silicon)	MVQ (silicon)	EPDM
Bearing pin:	Inox 1.4305 (18/8)	Inox 1.4305 (18/8)	Inox 1.4571
Magnets:	2 x Ceramic Sr Fe O (in contact with the medium)	2 x Ceramic Sr Fe O (in contact with the medium)	2 x Ceramic Sr Fe O (not in contact with the medium)
Nozzle size:	Ø 4.0mm, Inox 1.4305	Ø 2.0mm, Inox 1.4305	Ø 1.50mm, PTFE
Temperature range:	-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 100 °C (14 °F to 212 °F)	-10 °C to 100 °C (14 °F to 212 °F)
Flow rate:	0.123 - 8.38 l/min	0.091 - 2.40 l/min	0.042 - 1.25 l/min
Dimensions in mm (LxBxH):	77 x 43 x 47.50 without MSD (67 with MSD)	77 x 43 x 47.50 without MSD (67 with MSD)	77 x 43 x 40.50
Electrical connection:	3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.8mm	PANCON MAS-CON 156 MLSS
Special features:	Approvals: (NSF)	Approvals: NSF	Suitable for measurement of high purity water.

FHKU 10 G1/4" Arnite

Part number 938-1510/01 same device as above but with nozzle size Ø 1.0mm

FHKU 56 G1/4" Ryton

Part number 938-1856/01 same device as above but with nozzle size Ø 5.6mm

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MATERIAL:

• Turbine PVDF

OPTIONS:

• 3-pin solenoid socket Item number 941-0002/3

ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- \bullet Leakage current max. 10 $\mu\mathrm{A}$
- Signal Square-wave output
- Duty Cycle $50\%/\pm 5\%$

 ${\tt APPROVALS}\colon$



TECHNICAL DATA:

- Flow rate 0.041 10 l/min depending on the nozzle diameter
- Measuring accuracy $\pm~2\%$
- Repetition $< \pm 0.25\%$
- Pressure range 20 bar at 20 °C 290 psi at 68 °F
- Mounting position horizontal recommended
- Nozzle size G1/2" Ø 10.0mm (no other size possible)
 Hose connection Ø 7.0mm (no other size possible)
 other connection Ø 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.6mm









FHKUC 70 Hose Ryton	FHKU 100 G1/2" Arnite	FHKU 40 JG 3/8" (9.5mm) Arnite	FHKU 100 G1/2" PNP PVDF
938-3870/AE032	938-6500/01	938-7540/01	938-6300/C182
2 x Hose connection Ø12mm	2 x G1/2" external thread	2 x John Guest 3/8" (9.5mm)	2 x G1/2" external thread
PPS 40% GF (Ryton)	PBT 35% GF (Arnite)	PBT 35% GF (Arnite)	PVDF
EPDM	MVQ (silicon)	MVQ (silicon)	FPM (Viton)
Inox 1.4571	Inox 1.4305 (18/8)	Inox 1.4305	PCTFE
2 x Ceramic Sr Fe O (not in contact with the medium)	2 x Ceramic Sr Fe O (in contact with the medium)	2 x Ceramic Sr Fe O (in contact with the medium)	2x Ceramic Sr Fe O (not in contact with the medium)
Ø 7.0mm (no other size possible)	Ø 10.0mm (no other size possible)	Ø 4.0mm, Inox 1.4305	Ø 10.0mm (no other size possible)
-10 °C to 100 °C (14 °F to 212 °F)	-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 65 °C (14 °F to 149 °F)	-10 °C to 100 °C (14 °F to 212 °F)
1.40 - 18.00 l/min	3.00 - 30.00 l/min	0.123 - 8.38 l/min	3.00 - 30.00 l/min
81 x 43 x 40.50	75 x 43 x 47.50 without MSD (67 with MSD)	86 x 43 x 47.50 without MSD (67 with MSD)	75 x 43 x 47.50 without MSD (67 with MSD)
PANCON MAS-CON 156 MLSS	3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.8mm
Suitable for measurement of high purity water.	Approvals: (NSF)	Hose diameters from $3/8^{\prime\prime}$ (9.5mm) can be directly connected.	Signal connection: Open collector PNP.

FHKU 100 G1/2" Ryton

Part number 938-6800/01 same device as above but housing material in PPS 40% GF (Ryton).

FHKU 56 JG 3/8" (9.5mm) Arnite

Part number 938-7556/01 same device as above but with nozzle size Ø 5.6mm

Flow Sensor FHK / FHKU-LCD

5.1

\rightarrow FHK / FHKU-LCD

GENERAL DESCRIPTION:

The Flow Sensor FHK LCD is an universally applicable control device and Flow Sensor. It's working range can be individually defined according to its nozzle size. It guarantees most precise fluid measurements. Excellent suitably to the monitoring of ion exchanger filter cartridges and for the treatment of water.

Special features: Current supply over lithium battery. Time and date administration, upward or backwards counters, history with date, instantaneous value announcement, automatic impulse calibration, date alarm. With a battery change (measurements are not possible without battery) all attitudes and values are stored.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!







Designation:	FHKU LCD 40 G1/4" Arnite	FHKU LCD 100 G1/2" Arnite	FHK LCD 25 Flange
Part number:	938-1540/21	938-6500/21	937-5525/21
Connections:	2 x G1/4" external thread	2 x G1/2" external thread	Flange
Nozzle size:	Ø 4.0mm	Ø 10.0mm (no other size possible)	Ø 2.5mm
Flow rate:	0.123 - 8.38 l/min	3 - 30.00 l/min	0.06 - 2.74 l/min
Dimensions in mm (LxBxH):	77 x 43 x 47.60	75 x 43 x 47.60	59 x 46 x 47.60

Special features:

FHKU LCD 10 G1/4" Arnite

Part number 938-1510/21 same device as above but with nozzle size Ø 1.0mm

FHKU LCD-EX 100 G1/2" Arnite

Part number 938-6500/22 same device as above but with cable for external display.

FHK LCD 56 Flange

Part number 937-5556/21 same device as above but with nozzle size Ø 5.6mm

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Battery and electronics are integrated in the housing. Connection of

Flow Sensor for external display: Upper section FHK with cable.

from the external housing.

electronic and Flow Sensor with a cable. All functions have to be served

MATERIAL:

- O-ring MVQ (silicon)
- Bearing pin Inox 1.4305 (18/8)
- Nozzle Inox 1.4305 (18/8)
- Turbine PVDF
- Magnet Ceramic Sr Fe O (in contact with the medium)

TECHNICAL DATA LCD:

- Splash-proof IP 65
- Limit measurement 1 99999 litres
- Pulses / litre 1 65000
- Statistics memory, the last 5 zero resets
- Display with 5 digit
- Counter upward 0 to 99999 litres with and without limit
- Counter downward 99999 to -9999 liters
- Instantaneous value I/min
- Battery lithium CR 2032

TECHNICAL DATA:

- Flow rate 0.041 30 l/min depending on the nozzle diameter
- Measuring accuracy \pm 2%
- Repetition $< \pm 0.25\%$
- Temperature range -10 °C to 65 °C 14 °F to 149 °F
- Pressure range 10 at 20 °C 145 psi at 68 °F
- · Mounting position horizontal recommended
- Nozzle size G 1/4" internal thread G 1/2" external thread other connection Ø other connection

1.0, 1.2, 1.5, 2.0, 2.5, 3.3mm 10.0mm (not other size possible) 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.6mm

APPROVALS:

EXTERNAL DISPLAY:



FHK LCD 33 G1/4" Arnite FHK LCD 56 G1/8" Arnite

	12	
6	1	0
	all.	-

FHKII	ICD 40	IG 3/8	" (Q 5m	m\ Arnii



FHK LCD 30 JG Arnite

THE EED OF CITE AIMING	THE LED SO OT A THINK	Tinto Leb 10 30 0/0 (7.5mm) Armie	THE EED GO TO AIMIC
937-1533/21	937-6556/21	938-7540/21	937-2530/21
2 x G1/4" internal thread	2 x G1/8" external thread	2 x John Guest Ø 3/8" (9.5mm)	2 x Ø 8mm x 20mm
Ø 3.3mm	Ø 5.6mm	Ø 4.0mm	Ø 3.0mm
1.396 - 5.36 l/min	0.180 - 8.30 l/min	0.123 - 8.38 l/min	0.758 - 4.88 l/min
54 x 40 x 47.60	53 x 37 x 47.60	86 x 43 x 47.60	63 x 37 x 47.60

Hose diameters from 3/8" (9.5mm) can be directly connected.

FHK LCD 20 G1/4" Arnite

Part number 937-1520/21 same device as above but with nozzle size Ø 2.0mm

FHKU LCD 56 JG 3/8" (9.5mm) Arnite

Part number 938-7556/21 same device as above but with nozzle size Ø 5.6mm

FHK LCD-EX 30 JG Arnite

Part number 937-2530/22 same device as above but with cable for external display.

Flow Sensor FHK / FHKU Thermal

6.1

→ FHK / FHKU Thermal

GENERAL DESCRIPTION:

The FHK / FHKU Flow Sensor with termal probe is a general-purpose device; its working range can be individually defined according to its nozzle size. It is employed for measuring, regulating or metering and guarantees most precise measurements of fluid quantities. In addition, a pulse generator integrated into the Flow Sensor guarantees an almost unrestricted life span.

Special features: Great working range, depending on the nozzle diameter. Temperature range sonde integrated.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- \bullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!





Designation:	FHK 30 G1/8" Ryton thermal	FHKU 70 Schlauch Ryton thermal	FHK 25 PVDF thermal
Part number:	937-6830/AE232	938-3870/AV244	937-1420/AE192
Connections:	2 x G1/8" external thread	2 x Host connection Ø 12mm	2 x G1/4" internal thread
Housing:	PPS 40% GF (Ryton)	PPS 40% GF (Ryton)	PVDF 30% GK
O-ring:	EPDM	FPM (Viton)	EPDM
Magnets:	2 x Ceramic Sr Fe O (not in contact with the medium)	4 x Ceramic Sr Fe O (not in contact with the medium)	2 x Ceramic Sr Fe O (not in contact with the medium)
Nozzle size:	Ø 3.0mm, PTFE	Ø 7.0mm (no other size possible)	Ø 2.0mm, PTFE
Flow rate:	0.758 - 4.88 l/min	1.40 - 18.00 l/min	0.069 - 2.34 l/min
Dimensions in mm (LxBxH):	53 x 37 x 47.50 without MSD (66.90 with MSD)	81 x 43 x 45 without Cable	54 x 39.75 x 45 without Cable
Electrical connection:	3 Pin-AMP 2.8mm x 0.8mm / 1 Pin 3.5 x 0.8mm	Cable 4 pin, 2000mm length	Cable 4 pin, 650mm length
Special features:	Thermal probe integrated.	Thermal probe integrated.	Thermal probe integrated.

FHK 56 G1/8" Ryton thermal
Part number 937-6856/AE232 same device
above but with nozzle size Ø 5.6mm

FHKU 70 Schlauch Ryton thermal Part number 938-3870/AV242 same device as above but with 2 Magnets.

FHK 15 PVDF thermal

Part number 937-1420/AE242 same device as above but with cable 2000mm length.

www.digmesa.com

MATERIAL:

• Turbine PVDF

OPTIONS:

APPROVALS:

• 3-pin solenoid socket Item number 941-0002/3

• Bearing pin Inox 1.4571 • Hull inox 1.4571

ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- \bullet Thermal probe NTC $10k_{\Omega}\,60$ mW R/T8016 B25/100 3988K
- Signal voltage OV GND
- Signal load max. 20 mA
- Leakage current max. $10 \,\mu\text{A}$ • Signal Square-wave output
- Duty Cycle 50% / \pm 5%

TECHNICAL DATA:

- Flow rate 0.041 10 l/min depending on the nozzle diameter
- \bullet Measuring accuracy $\pm~2\%$
- Repetition $<\pm$ 0.25%
- \bullet Temperature range -10 °C to 100 °C 14 °F to 212 °F
- Pressure range 20 bar at 20 °C 290 psi at 68 °F
- Mounting position horizontal recommended
- Nozzle size G1/4" internal thread G1/8" external thread Hose connection 0 1.0, 1.2, 1.5, 2.0, 2.5, 3.3 mm 0 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.6 mm 0 7.0 mm (not other size possible)

ELECTRICAL PATTERN THERMAL WITH CABLE:

[+V	bi	rown	Power supply +4,524VDC
	Τ.	W	hite	Signal connection Open collector NPI
		ye	ellow	NTC 10kg 60mW
Hall K	NTC \]		R/T8016 B25/100 3988K
GND		gı	reen	Signal voltage OV GND
עווט		T		Jigilai vollago OV UND

Flow Sensor FHKSC

7.1

\rightarrow FHKSC

GENERAL DESCRIPTION:

The FHKSC Flow Sensor is a general-purpose device that has been specially designed for the use with vibratory pumps. The device is installed between the water container and the vibratory pump (on the suction side) and in this way prevents the measuring errors that arise during pulsating water flow caused by vibratory pumps.

Specific applications: Thanks to its closure system, the water outlet side can be assembled in four different positions.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	FHKSC 12 R1.2K 0° Arnite	FHKSC 18 R1.2K 0° Arnite	FHKSC 12 double pulse snapper Ø 3.9
Part number:	974-8501	974-8502	932-8523
Montage Positions:	0°	0°	0°
Nozzle size:	Ø 1.2mm	Ø 1.8mm	Ø 1.2mm
Flow rate:	0.075 - 0.56 l/min	0.075 - 0.89 l/min	0.075 - 0.56 l/min
Dimensions in mm (LxBxH):	56.5 x 41 x 35.20	56.5 x 41 x 35.20	56.5 x 41 x 35.20
Special features:	Central sprayed fastening pin Ø 2.8 mm x 7.5 mm. Recommended washer disc: Quicklock® Benzing Ø 3 mm. Integrated 1.2K pull-up resistor.	Central sprayed fastening pin Ø 2.8 mm x 7.5 mm. Recommended washer disc: Quicklock® Benzing Ø 3 mm. Integrated 1.2K pull-up resistor.	Centrally ball catch fitting for hole Ø 3.9mm on the lower part of the Flow Sensor.

Not NSF certified.



FHKSC 12 0° ArnitePart number 932-8501 same device as above but without pull-up resistor.

FHKSC 18 R1.2K 180° Arnite
Part number 974-8502/180° same device as above but 180° installs.

FHKSC 12 double pulse snapper Ø 3.9 Part number 974-8523 same device as above but with integrated 1.2K pull-up resistor.

www.digmesa.com

MATERIAL:

- Housing PBT 35%GF (Arnite)
- Bearing pin injection-moulded like the housing
- O-ring MVQ (silicon)
- Turbine PVDF
- Magnet Ceramic Sr Fe O (in contact with the medium)

ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- \bullet Leakage current max. 10 μ A
- Electrical connection PANCON MAS-CON 156 MLSS
- Signal Square-wave output
- \bullet Duty Cycle 50% / \pm 5%

TECHNICAL DATA:

- Connections 2 x hose nipple Ø 6mm
- Flow rate 0.041 2 I/min depending on the nozzle diameter
- Measuring accuracy \pm 2%
- Repetition $<\pm$ 0.25%
- Temperature range -10°C to $+65^{\circ}$ C 14°F to 149°F
- \bullet Pressure range -1 bar to 0.3 bar at 20 °C $_{-14.5}$ psi to 4.35 psi at 68 °F
- Mounting position horizontal recommended
- Nozzle size Ø 1.0, 1.2, 1.8, 2.0mm





FHKSC 18 R1.2K snapper Ø 3.9

FHKSC 18 R1.2K snapper Ø 5.4

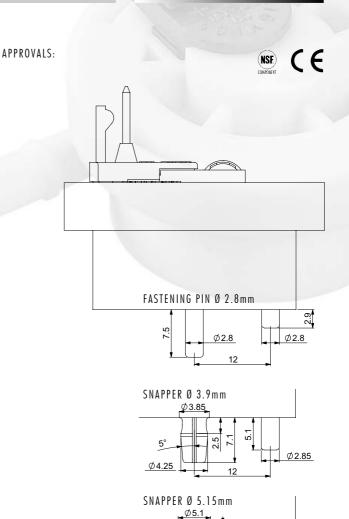
••	••
974-8522/180	974-8530
180°	0°
Ø 1.8mm	Ø 1.8mm
0.075 - 0.89 l/min	0.075 - 0.89 l/min
72 x 41 x 35.20	56.5 x 41 x 35.20
Centrally ball catch fitting for hole Ø 3.9mm on the lower part of the Flow Sensor. Integrated 1.2K pull-up resistor.	Centrally ball catch fitting for hole \emptyset 5.4mm on the lower part of the Flow Sensor. Integrated 1.2K pull-up resistor.

FHKSC 18 R1.2K snapper Ø 3.9

Part number 974-8522 same device as above but 0° installs.

FHKSC 18 R1.2K snapper Ø 5.4

Part number 974-8530/180 same device as above but 180° installs.

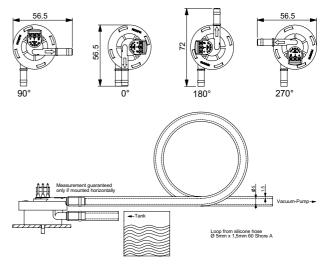


ASSEMBLY POSITIONS and RECOMMENDATION:

6.15°

Ø5.2

Ø2.85



Flow Sensor FM

8.1

 \rightarrow FM

GENERAL DESCRIPTION:

The FM Flow Sensor is a general-purpose precision device. It measures with constant precision and guarantees maximum accuracy in the measurement of fluid volumes. Its integrated electronic pulse emitter, plus the forces acting centrally upon its vane give an additional guarantee for a practically unlimited useful life. By means of its multi-jet metering principle, a very high degree of accuracy is achieved and for this reason it is employed in many different industrial sectors.

Special features: High accuracy. Sturdy bearing. Impulses can be doubled (turbine with 4 magnets).

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	FMIG 1/2" Arnite 2 Magnets	FMFG 1/2" Denilen 4 Magnets	FMIG 1/2" Ryton 2 Magnets
Part number:	935-1500/2	935-2904/4	935-1800/2
Housing:	PBT 35% GF (Arnite)	PP 20% Talk (Denilen)	PPS 40% GF (Ryton)
Parting disk:	PBT 35% GF (Arnite)	PP 20% Talk (Denilen)	PPS 40% GF (Ryton)
Pressure range:	20 bar at 20°C / 290 psi at 68 °F	6 bar at 20°C/87 psi at 68 °F	20 bar at 20°C/290 psi at 68 °F
Magnets:	2 Magnets	4 Magnets	2 Magnets
Dimensions in mm (LxBxH):	116 x 82 x 66 without MSD (85.5 with MSD)	116 x 81.5 x 65.5	116 x 82 x 66 without MSD (85.5 with MSD)
Electrical connection:	3 Pin-AMP 2.8mm x 0.5mm	Faston AMP 6.3mm x 0.8mm	3 Pin-AMP 2.8mm x 0.5mm
Special features:	Temperature range: -10 °C to 65 °C 14 °F to 149 °F	Temperature range: -10 °C to 65 °C 14 °F to 149 °F	Temperature range: -10 °C to 100 °C 14 °F to 212 °F



FMIG 1/2" Arnite 4 Magnets

FMIG 1/2" Ryton 4 MagnetsPart number 935-1800/4 same device as above but with 4 Magnets.

www.digmesa.com

MATERIAL:

- O-ring MVQ (silicon)
- Bearing pin Inox 1.4305 (18/8)
- Turbine PVDF
- Magnet Ceramic Sr Fe O (in contact with the medium)

ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- Leakage current max. $10 \,\mu\text{A}$
- Signal Square-wave output

• Duty Cycle 50% / \pm 5%

TECHNICAL DATA:

- Connections 2 x G1/2" external thread
- Flow rate 0.24 18 I/min
- \bullet Measuring accuracy $\pm~2\%$
- Repetition $< \pm 0.25\%$
- Mounting position horizontal recommended

Nozzle size Ø 8mm

OPTIONS:

• 3-pin solenoid socket Item number 941-0002/3

















FMIG	1/2"	Denilen 4	Magnets
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FMFG 1/2	" Arnite 2	Magnets
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FMFG	1/2"	Ryton	2 Magnets
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935-1904/4	935-2500/2	935-2800/2
PP 20% Talk (Denilen)	PBT 35% GF (Arnite)	PPS 40% GF (Ryton)
PP 20% Talk (Denilen)	PBT 35% GF (Arnite)	PPS 40% GF (Ryton)
6 bar at 20°C/87 psi at 68 °F	20 bar at 20°C / 290 psi at 68 °F	20 bar at 20°C / 290 psi at 68 °F
4 Magnets	2 Magnets	2 Magnets
117 x 81.5 x 66 without MSD (85.5 with MSD)	116 x 82 x 65.5	116 x 82 x 65.5
3 Pin-AMP 2.8mm x 0.5mm	F : AUD / 0 00	F : AUD / 0 00
3 FIII-AMF Z.OIIIIII X U.SIIIIII	Faston AMP 6.3mm x 0.8mm	Faston AMP 6.3mm x 0.8mm





FMIG 1/2" Denilen 2 Magnets Part number 935-1904/2 same device as above but with 2 Magnets. FMFG 1/2" Arnite 4 Magnets Part number 935-2500/4 same device as above but with 4 Magnets. FMFG 1/2" Ryton 4 Magnets

Part number 935-2800/4 same device as above but with 4 Magnets.

9

Flow Sensor EPI

9.1

 \rightarrow EPI

GENERAL DESCRIPTION:

The EPI Flow Sensor is specifically suitable for fluid flow rate measurement of highly viscose media such as syrup, oil or detergent concentrates. Thanks to its special design and the epicycloid wheels, the EPI Flow Sensor is highly precise and allows extremely accurate flow measurements with minimal pressure loss. **Specific applications:** Highly viscous media, high temperatures, high flow rates with low pressure loss and good chemical resistance.

SHOULD BE CONSIDERED:

Material Resistance:

Special regulations which must be in compliance with the Flow Sensor manufacturer appliable in each country, e.g. CE, NSF, FDA and SK. The various media flowing through the Flow Sensor differs from application to application. Clarifications over the entire installation and Flow Sensor resistance to the medium itself (see material) are recommended!

Electronics:

DIGMESA Electronic Circuitry is always designed for operation with DIGMESA Flow Sensor. Please note the following if connecting to other electronic circuitry:

- The Flow Sensor does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)
- ullet There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!







Designation:	EPI PA 6.6 Verton	EPI PA 6.6 Verton LED	EPI PA 6.6 Verton double-Hall
Part number:	930-0101/V01	930-0101/V02	930-0101/V03
Housing:	PA 6.6 50% GF (Verton)	PA 6.6 50% GF (Verton)	PA 6.6 50% GF (Verton)
Electrical connection:	3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.5mm	3 Pin-AMP 2.8mm x 0.8mm / 1 Pin 3.5 x 0.8mm
Special features:		Pulse detection by incorporated LED in cover (lights once per pulse).	Can be calibrated via the 4th pin (Double-Hall).

EPI PA 6.6 Verton chemistry

EPI PA 6.6 Verton LED chemistry

EPI PA 6.6 Verton double-Hall chemistry

Part number 930-0101/CV01 same device as above but with bearing pin aluminium oxide. Part number 930-0101/CV02 same device as above but with bearing pin aluminium oxide. Part number 930-0101/CV03 same device as above but with bearing pin aluminium oxide.

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MATERIAL:

- O-ring FPM (Viton)
- Bearing pin Inox 1.4435
- Turbine PEEK
- Magnet NdFeB (Neodym) not in contact with the medium

ELECTRICAL CONNECTION RATINGS:

- Power supply 4.5 − 24 VDC
- Consumption 5 mA to max. 13 mA
- Signal connection Open collector NPN
- Signal voltage OV GND
- Signal load max. 20 mA
- Leakage current max. $10 \,\mu\text{A}$
- Signal Square-wave output
- \bullet Duty Cycle 50% / \pm 5%

TECHNICAL DATA:

- Connections 2 x G1/4" internal thread
- Flow rate 0.06 16 l/min
- Measuring accuracy $\pm~2\%$
- Repetition $< \pm 0.25\%$
- Temperature range -10°C to $+65^{\circ}$ C 14°F to 149°F
- Pressure range 10 bar at 20 °C 145 psi at 68 °F
- Mounting position horizontal recommended
- Nozzle size Ø 7.0mm
- Viscosity range: approx. 5 8000 centistokes
- Dimensions in mm L x B x H: 88 x 71 x 49 without MSD (68 with MSD)

OPTIONS:

APPROVALS:

• 3-pin solenoid socket Item number 941-0002/3













D.Vt LED	FDL DD V
P Verton LED	EPI PP Verton double Hall

EPI PP Verton	EPI PP Verton LED	EPI PP Verton double Hall	EPI PA 6.6 Verton chemistry
930-0901/V01	930-0901/V02	930-0901/V03	930-0101/CV01
PP 50% GF (Verton)	PP 50% GF (Verton)	PP 50% GF (Verton)	PA 6.6 50% GF (Verton)
3 Pin-AMP 2.8mm x 0.8mm	3 Pin-AMP 2.8mm x 0.5mm	3 Pin-AMP 2.8mm x 0.8mm / 1 Pin 3.5 x 0.8mm	3 Pin-AMP 2.8mm x 0.8mm
	Pulse detection by incorporated LED in cover (lights once per pulse).	Can be calibrated via the 4th pin (Double-Hall).	Bearing pin aluminium oxide (industry diamond Al $_2$ O $_3$).

EPI PP Verton chemistry

Part number 930-0901/CV01 same device as above but with bearing pin aluminium oxide.

EPI PP Verton LED chemistry

Part number 930-0901/CV02 same device as above but with bearing pin aluminium oxide.

EPI PP Verton double Hall chemistry

Part number 930-0901/CV03 same device as above but with bearing pin aluminium oxide.

10

FCD 3

more information under

10.1

 \rightarrow FCD 3

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GENERAL DESCRIPTION:

The FCD 3 is equipped with most modern microprocessor electronics. In connection with Digmesa measuring instruments a higly precise monitoring systems is the result. Local or remote interrogation or administration is available at any time. Even during an interrogation, the measurement output being received is registered continuously. Stored dada remain intact even after a power cut.

Special features: With attached Flow Sensor which must have over foam recognition (sm) with 4Pin, there exists the possibility to attach an extension line (barrel empty), an external alarm (barrel change-over, acoustic / indicator).

BASIC SYSTEM:

- 1 module for 4 lines (up to 4 Flow Sensors can be connected)
- RS232 interface (RS485 can be supplied on request)
- cable connections
- 1 master key
- 1 clean key (cleaner's key)
- mains voltage 230 VAC
- operating manual
- dimensions in mm L x H x T: 204 x 217 x 116

MAXIMUM SYSTEM:

- 4 modules, each with 4 lines for administration of up to 16 lines, making a subsequent extension
 possible at any time of 4 lines each.
- cable connections



Designation:	FCD 3 4 lines with RS232 interface	FCD 3 12 lines with RS232 interface	FCD 3 16 lines with RS485 interface
Part number:	923-9304/RS232	923-9312/RS232	923-9316/RS485
Lines:	4	12	16
Modules (4 lines):	1 (Part number 923-9200)	3 (Part number 923-9200)	4 (Part number 923-9200)
Special features:	Up to 4 Flow Sensor can be connected.	Up to 12 Flow Sensor can be connected.	Up to 16 Flow Sensor can be connected.

FCD 3 4 lines with RS485 interface Part number 923-9304/RS485 same device as above but with RS485 interface. FCD 3 12 lines with RS485 interface
Part number 923-9312/RS485 same device as above but with RS485 interface.

FCD 3 16 lines with RS232 interface

Part number 923-9316/RS232 same device as above but with RS232 interface.

11.1

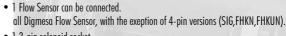
 \rightarrow FC I

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GENERAL DESCRIPTION:

The FC Flowcontroller (without limit) is the single-line version of the FCD 3. However, remote interrogation is not available. When used in combination with Digmesa Flow Sensor, it will permit the most simple and accurate measurement and control of fluids. With the aid of the FC Programmer, the FC Flowcontroller can be pre-programmed with the desired limit values or number of impulses. It is therefore extremely suitable for the monitoring of decalcifiers, ion-exchangers or activ carbon filters, being used for cleaning ans detoxifying of water. A zero setting is carried out the reset button; the last 24 values are stored and will remain intact even in the event of a power cut. To prevent manipulation, the FC can also be supplied with a reset cable (for key switches).

SCOPE OF SUPPLY:





- 1 4-pin solenoid socket
- mains voltage 230 VAC
- operating manual
- dimensions in mm L x H x T: 104 x 92 x 39



The FC Programmer is required to program and/or alter the impulse and limit values for the FC Flowcontroller. The FC Programmer can be used again and again, even for additional FCs. For this reason it is not contained in the supply specification.

• dimensions in mm L x B x T: 85 x 46 x 16, cable-lengthens 400 mm





925-0200



925-1101

FC Programmer FC I without limit

925-1100 Part number:

Designation:

Special features:

As soon as the adjusted limit value is reached,

the red LED begins to flash.

FC I with limit and reset-cable

Part number 925-1120 same device as above but with reset-cable.

FC I without limit and reset-cable

Part number 925-1130 same device as above but with reset-cable.

12

CMC Quattro / Duo

more information under

12.1

→ CMC Quattro / Duo

www.digmesa.com

GENERAL DESCRIPTION CMC QUATTRO:

The CMC Quattro is, when used in combination with Digmesa meters, a highly accurate electronic control and metering system. It is employed everywhere where different (or the same) quantities of different (or same) fluids need to be metered, controlled, or regulated. In connection with the RS232 interface, the CMC Quattro will control and record every process and can also be connected to any billing system and controlled remotely.

MAXIMUM SYSTEM:

- 4 groups (keypads) with 5 portions (keys)
- 2 level sensors
- 1 timer (Tee)
- 1 interface RS232 (optional)

GROUP SYSTEM:

- 4 lines and one multi-function key (stop / free running or fifth portion)
- a single ribbon cable (optional) leads to all the keypads
- · mains voltage 230 VAC
- all Digmesa Flow Sensor can be connected, except 4-pin versions (FF-SIG)

GENERAL DESCRIPTION CMC DUO:

The CMC Duo is the CMC Quattro's little brother. It is suitable for the control and metering of two groups and cannot be supplied with an interface.

MAXIMUM SYSTEM:

- 2 groups (keypads) with 5 portions (keys)
- 1 level probe
- 1 safety sensor (optional)
- 1 timer (Tee)

GROUP SYSTEM:

- 2 lines and one multi-function key (stop / free running or fifth portion)
- a single ribbon cable (optional) leads to all the keypads
- mains voltage 230 VAC
- all Digmesa Flow Sensor can be connected, except 4-pin versions (FF-SIG)







	Designation:	CMC Quattro 4NT	CMC Quattro 4NT RS232	CMC Duo 2NT
	Part number:	921-0000	921-0000/RB	921-0231
	Dimensions in mm (LxBxH):	206 x 120 x 48	206 x 120 x 48	125 x 89 x 41.5
	Level sensors:	2	2	1

Special features: Interface RS 232 (optional)

13

CMC Keypads

more information under

13.1

→ CMC Keypads

www.digmesa.com

GENERAL DESCRIPTION:

To complement our metering and monitoring systems we also offer suitable Keypads. Up to four lines are connected to the control system electronic by a single ribbon cable. Addressing is carried out by means of a jumper on the reserve. In plain language this means that you only need one Keypad, which you can adapt to the desired group at any time. The Keypad layout also can be adapted to individual customer requirements on request.

FRONTAL FRAME KEYPAD:

Frontal frame Keypad with 5 keys and an LED display. Very simple to assemble by means of a snap-on mechanism (front plate thickness)



FLAT KEYPADS:

Flat Keypads with 5 clicking buttons and an LED display. Very simple to assemble by means of 4 pegs (Ø 3.0mm) and self-adhesive plastic foil.









Designation: CMC Keypad frontal frame

CMC Keypad flat

CMC Keypad flat

Part number: 924-9000/09

924-9050

923-9040

Front plate thickness: 0.9mm

Dimensions in mm (LxBxH): 117 x 46 x 16

60 x 50 x 12

122 x 35 x 12

Special features:

The simplest assembly by means of a snap-on mechanism (front plate thickness 0.6, 0.9, 1.2, 1.5, 2.0 und 2.5mm).

The simplest assembly by means of 4 pegs (Ø 3.0mm) and self-adhesive plastic foil.

The simplest assembly by means of 4 pegs (Ø 3.0mm) and self-adhesive plastic foil.

CMC Keypad frontal frame

Part number 924-9000/15 same device as above but for front plate thickness 1.5mm.



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