

MULTI ZONE MONITORING

Upgrade your moulding machine with a new digital flow monitor to improve your productivity

Digital flow monitors will give you many advantages such as:

- Digital monitoring of Flow, Temperature and Pressure
- Alarm Output
- Higher flow capacity
- Higher temperature range
- Data storage and export
- Faster Mould changeovers
- OPC-UA / Euromap interface



Flosense 2.0

Manifolds - Retrofit Style



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Flosense 4.0

Compact Dual Line Manifolds
Integrated Sensors and Valves



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Flosense 3.0

All in One Flow Regulator Style
Integrated Control Screen



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Touch screen



Touch Screen mounted to the Manifolds.

Equipped with power, alarm, USB and Ethernet connections.

Display	
Type	Touch
Size	7,1"
Voltage	12-24 Volt.
Data	USB + Ethernet
Communications	OPC UA
Internal memory	Up to 30 days data (FIFO)

Part No.	Size	Manifold Inputs	Power Connection	Alarm Output	Interface
FS-7100	7.1"	4	12V	Yes	OPC-UA



The main screen will show all circuits with information about flow and temperature. The main inlet and outlet will also show including pressure.



By clicking on a specific circuit you will see detailed information, including delta T (heat transfer) of the specific channel. Also, turbulent flow indicator is included.

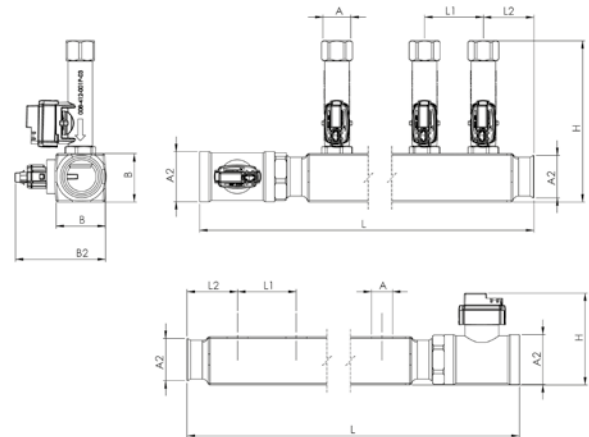


Data is stored in the internal memory and can be displayed in graphical view for each circuit. Data can also be exported for external use.



The system is equipped with Audit Log to keep track of all events including user ID tracer.

Flosense 2.0 Manifold



1" Manifold	Flow sensor range option (l/m)			Ports	A	A2	B	L	L1	L2	H	Temp.
Part No.	0,6-12**	1-20	2-40									
F2M4-x-xx	•	•	•	4	1/2"	1"	40	315	50	45	140	120°C
F2M4HT-x-xx	•	•	•	4	1/2"	1"	40	315	50	45	140	160°C
F2M6-x-xx	•	•	•	6	1/2"	1"	40	415	50	45	140	120°C
F2M6HT-x-xx	•	•	•	6	1/2"	1"	40	415	50	45	140	160°C
F2M8-x-xx	•	•	•	8	1/2"	1"	40	515	50	45	140	120°C
F2M8HT-x-xx	•	•	•	8	1/2"	1"	40	515	50	45	140	160°C
F2M10-x-xx	•	•	•	10	1/2"	1"	40	615	50	45	140	120°C
F2M10HT-x-xx	•	•	•	10	1/2"	1"	40	615	50	45	140	160°C
F2M12-x-xx	•	•	•	12	1/2"	1"	40	715	50	45	140	120°C
F2M12HT-x-xx	•	•	•	12	1/2"	1"	40	715	50	45	140	160°C

1.1/4" Manifold	Flow sensor range option (l/m)			Ports	A	A2	B	L	L1	L2	H	Temp.
Part No.	0,6-12**	1-20	2-40									
F2M4-L-x-xx	•	•	•	4	1/2"	1.1/4"	50	315	50	45	150	120°C
F2M4HT-L-x-xx	•	•	•	4	1/2"	1.1/4"	50	315	50	45	150	160°C
F2M6-L-x-xx	•	•	•	6	1/2"	1.1/4"	50	415	50	45	150	120°C
F2M6HT-L-x-xx	•	•	•	6	1/2"	1.1/4"	50	415	50	45	150	160°C
F2M8-L-x-xx	•	•	•	8	1/2"	1.1/4"	50	515	50	45	150	120°C
F2M8HT-L-x-xx	•	•	•	8	1/2"	1.1/4"	50	515	50	45	150	160°C
F2M10-L-x-xx	•	•	•	10	1/2"	1.1/4"	50	615	50	45	150	120°C
F2M10HT-L-x-xx	•	•	•	10	1/2"	1.1/4"	50	615	50	45	150	160°C
F2M12-L-x-xx	•	•	•	12	1/2"	1.1/4"	50	715	50	45	150	120°C
F2M12HT-L-x-xx	•	•	•	12	1/2"	1.1/4"	50	715	50	45	150	160°C

Comes in pairs of 2 manifolds
 • One feed Manifold with Pressure and Temperature Sensor
 • One return Manifold with Flow, Temperature and Pressure Sensor

Supplied without connector nipples (see page 93)
 Ordering Example: Part No. + Flow sensor range (F2M4-1-20)

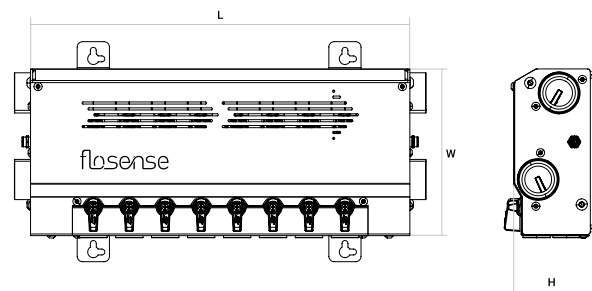
HT = High Temperature.
 Complete unit with Pressure sensor installed on main inlet / return. Connect up to 4 manifolds to the touch screen in order to monitor up to 48 separate cooling circuits. Use the alarm limits (and output) on flow and temperature to control the process stability and part quality.

** Available from Q4 2021

Material:
 Stainless Steel

Flow		Standard Sensor	HT Sensor	
Measuring range		0,6-12 l/min (0,16-3,7 gpm) 1-20 l/min (0,27-5,2 gpm) 2-40 l/min (0,53-10,4 gpm)	0,6-12 l/min (0,16-3,7 gpm) 1-20 l/min (0,27-5,2 gpm) 2-40 l/min (0,53-10,4 gpm)	
Accuracy		(± 1 o) in water, ± 1% FS	(± 1 o) in water, ± 1% FS	
Temperature		Standard Sensor	HT Sensor	
Measuring range		0-120°C (32-248°F)	0-160°C (32-320°F)	
Accuracy		15-90°C (59-194°F) ± 0.5 K 0-120°C (32-248°F) ± 1 K	15-90°C (59-194°F) ± 0.5 K 0-120°C (32-248°F) ± 1 K 120-160°C (248-320°F) ± 2 K	
Pressure		Standard Sensor	HT Sensor	
Measuring range		0-10 bar (0-145 psi)		
Accuracy		± 2.5% FS		

Flosense 4.0 Manifold



Part No.	Flow sensor range option (l/m)			Ports	L	W	H	Temp.
	0,6-12**	1-20	2-40					
F4M4-x-xx	•	•	•	4	220	155	72	120°C
F4M4HT-x-xx	•	•	•	4	220	155	72	160°C
F4M6-x-xx	•	•	•	6	287	155	72	120°C
F4M6HT-x-xx	•	•	•	6	287	155	72	160°C
F4M8-x-xx	•	•	•	8	354	155	72	120°C
F4M8HT-x-xx	•	•	•	8	354	155	72	160°C
F4M10-x-xx	•	•	•	10	421	155	72	120°C
F4M10HT-x-xx	•	•	•	10	421	155	72	160°C
F4M12-x-xx	•	•	•	12	488	155	72	120°C
F4M12HT-x-xx	•	•	•	12	488	155	72	160°C

Ordering Example: Part No. + Flow sensor range (F4M4-1-20)

** Available from Q4 2021

HT = High Temperature.

Complete unit with Pressure sensor installed on main inlet / return. Connect up to 4 manifolds to the touch screen in order to monitor up to 48 separate cooling circuits. Use the alarm limits (and output) on flow and temperature to control the process stability and part quality.

Material:

Flow modules: DZR Brass / nickel plated / Cover: stainless steel.

Flow		Standard Sensor	HT Sensor	 FLOW
Measuring range	0,6-12 l/min (0,16-3,7 gpm)		0,6-12 l/min (0,16-3,7 gpm)	
	1-20 l/min (0,27-5,2 gpm)		1-20 l/min (0,27-5,2 gpm)	
	2-40 l/min (0,53-10,4 gpm)		2-40 l/min (0,53-10,4 gpm)	
Accuracy	(± 1 o) in water, ± 1% FS		(± 1 o) in water, ± 1% FS	
Temperature		Standard Sensor	HT Sensor	 TEMPERATURE
Measuring range	0-120°C (32-248°F)		0-160°C (32-320°F)	
Accuracy	15-90°C (59-194°F) ± 0.5 K		15-90°C (59-194°F) ± 0.5 K	
	0-120°C(32-248°F) ± 1 K		0-120°C (32-248°F) ± 1 K	
			120-160°C (248-320°F) ± 2 K	
Pressure		Standard Sensor	HT Sensor	 PRESSURE
Measuring range	0-10 bar (0-145 psi)			
Accuracy	± 2.5% FS			