flosense®

FLEXIBLE FLOW MONITORING

FloSense; the new affordable, flexible flow monitoring system designed for accurate measuring and monitoring of flow, temperature and pressure variations in cooling circuits.

FloSense measures flow, temperature and pressure on a single flow channel, but also has the ability to monitor temperature and pressure on a secondary circuit.

When used in an injection moulding circuit the unit can be connected to two sensors; one on the ‘flow’ and one on the ‘return’. FloSense calculates and displays the difference in temperature and pressure known as ‘Delta T’ and ‘Delta P’.

Using these values, FlowSense provides an indication of the stability of the process and checks the efficiency, identifying wasted energy and variations in pressure which could indicate leaks or blocked waterways.

FlowSense is designed to be installed in various locations within the cooling circuit including the main water supply, the mould heater, critical cooling channels or distribution manifolds.

Quick to install and easy to set-up, FlowSense is a critical component in any injection moulding configuration and should form part of any setup where cost control and quality are key considerations.

Developed as an integral part of the FloSense system, the following features have been designed to eliminate guesswork, ensure moulding consistency and efficiency across all monitored circuits.

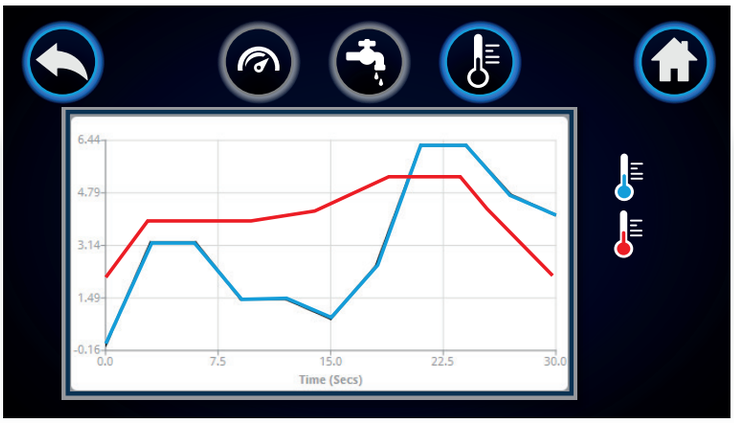
ALARM OUTPUT

With programmable alarm limits on flow, temperature and pressure any variation in the values being monitored will trigger an on-screen alarm. An external alarm output signal can be connected to auxiliary equipment which could be a visual or audible beacon, the mould heater or the injection moulding machine.

Even in a 'hose burst' situation the unit will identify a sudden loss of pressure and the unit can either be connected to an alarm or could be used to automatically shut down the mould heater.

DATA RECORDING

The unit has a built in graphing capability and it is also possible to download the data to a laptop using the integrated USB port for further analysis.



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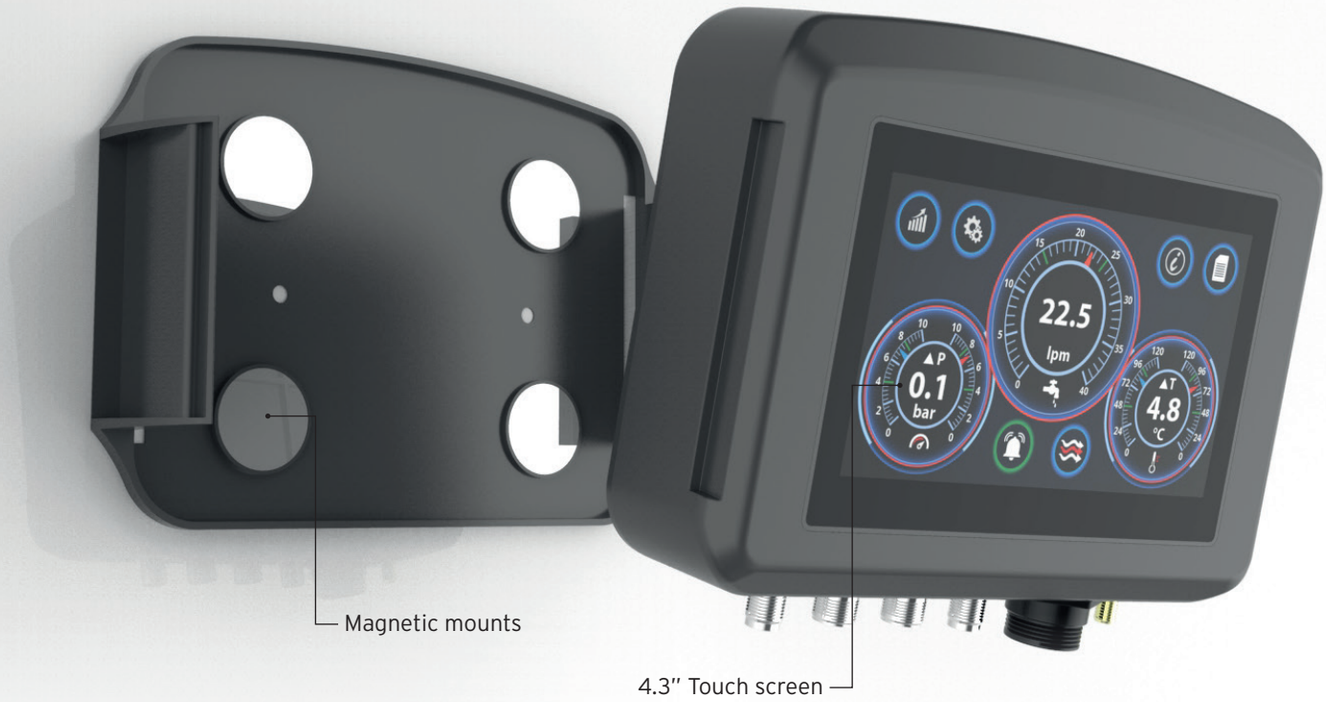


FloSense, provides visibility of key cooling circuit metrics, improves efficiency, enhances productivity and profitability.

REMOTE MOUNT DISPLAY

Using a 4.3" high resolution touch display and an innovative bracket design. FloSense can be remote mounted in a convenient location and by using the integral magnets the unit can be simply placed on the side of the moulding machine

TURBULENT FLOW

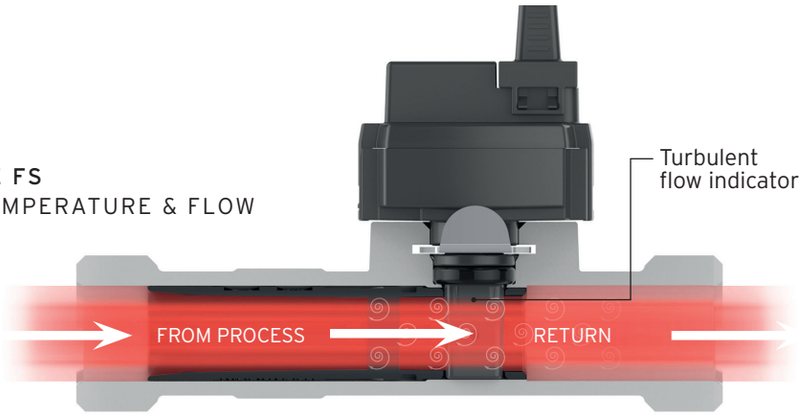
Often regarded as a key indicator in the efficiency of a mould cooling circuit, FlowSense is fitted with a turbulent flow indicator. The unit will indicate laminar, transitional and turbulent flow as well as monitoring the Reynolds number, based on flow diameter and percentage glycol in the system.

PLUG & PLAY

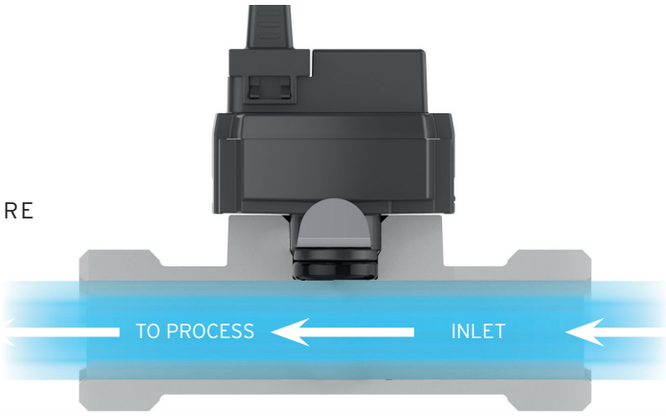
Connect the unit to different size flow sensors with flow rates up to 200 litres per minute. With full 'Plug and Play' connectivity FlowSense will automatically identify the flow rate of the sensor that it is connected to adjusting the scales automatically. The vortex style flow sensors are all stainless steel construction and rated up to 120°C as standard.

Endlessly configurable, FloSense is available with a range of components to suit most injection moulding set-ups. If you would like any help, or are unsure about its suitability for your particular arrangement, please contact one of our experts using the details on the back of this brochure.

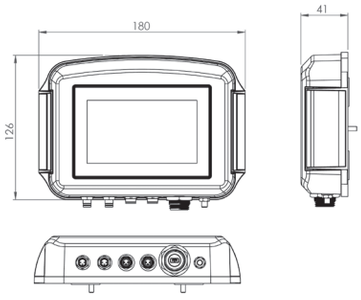
SENSOR TYPE FS
PRESSURE, TEMPERATURE & FLOW



SENSOR TYPE PS
PRESSURE & TEMPERATURE



TOUCH CONTROL

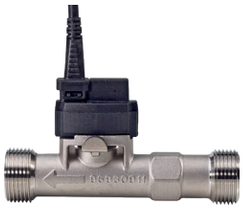


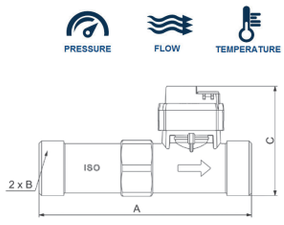
Part number	Display type	Sensor input	Alarm output	Voltage
FS-T400	Touch	2	Yes	12 V.

Description

Premium quality touch screen with a simple and logical interface. Supplied with wall bracket for easy installation. Includes: Power supply and USB cable.

MULTI SENSOR KIT TYPE FS - STAINLESS STEEL HOUSING - FOR RETURN PIPING





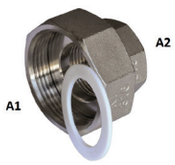
Part number	Flow capacity l/m	A	B	B	Max temperature
FS-115	1-15	110	G 3/4"	G 3/4"	120ºC
FS-240	2-40	110	G 3/4"	G 3/4"	120ºC
FS-5100	5-100	129	G 1"	G 1"	120ºC
FS-10200	10-200	137,5	G 1-1/4"	G 1-1/4"	120ºC

Description

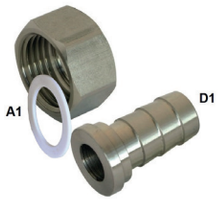
Includes Flow Pipe and Multi Sensor (cable not included)

OPTIONAL (NOT INCLUDED IN THE KIT) AISI 316

Swivel Reducer Nipple Female/Female



Swivel Hosetail



Part number	A1 x A2	Part number	A1 x D1
RNF-316-1	3/4" x 3/8"		
RNF-316-2	3/4" x 1/2"	HT-316-2	3/4" x 19
RNF-316-3	1" x 3/4"	HT-316-3	1" x 25
RNF-316-4	1.1/4" x 1"	HT-316-4	1.1/4 x 32

PRESSURE & TEMPERATURE SENSOR

TYPE PS

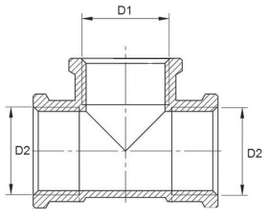
PRESSURE TEMPERATURE

Part number	Pressure range bar	Thread	Max temp
PS-100-G1/2	0-10	1/2" BSPP	120°C

Includes

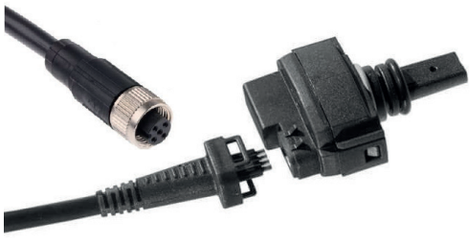
For Inlet Piping
Cable not included

T-CONNECTOR AISI 316



Part number	D1	D2
T-316-1	1/2"	1/2"
T-316-2	1/2"	3/4"
T-316-3	1/2"	1"
T-316-4	1/2"	1.1/4"
T-316-5	1/2"	1.1/2"

SENSOR CABLE



Part number	Connection	Length (mm)
FS-SC1200	M8/Molex	1200
FS-SC2900	M8/Molex	2900

EXTENSION CABLE

Part number	Connection	Length (mm)
FS-EC1000	M8/M8	1000
FS-EC2000	M8/M8	2000
FS-EC5000	M8/M8	5000

SENSORS: FLOW, PRESSURE, TEMPERATURE

PRESSURE FLOW TEMPERATURE

Part number	Flow capacity l/m	Max temperature
FS-S1-15	1-15	120°C
FS-S2-40	2-40	120°C
FS-S5100	5-100	120°C
FS-S10200	10-200	120°C

SPARE PRESSURE - TEMPERATURE SENSORS

PRESSURE TEMPERATURE

Part number	Flow capacity l/m	Max temperature
PS-P10	0-10	120°C

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Distributor

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