

IN-4000 SET

NOZZLE PRESSURE SENSOR SYSTEM





Main features:

- Measurements up to 4000bar nozzle pressure and melt temperature of 400°C.
- Multishot measurements at temperatures <230°C with different levels of pressure.
- · Simple magnetic installation without screws.
- Combine the IN Sensor together with the Nozzle touch force sensor.
- Ideal for service and development (measurements during operation are not possible).
- Scope of delivery: IN Sensor, Controle and display device, Heater band, Nozzle adapter, Magnetic adapter, Magnetic base and carrying case.

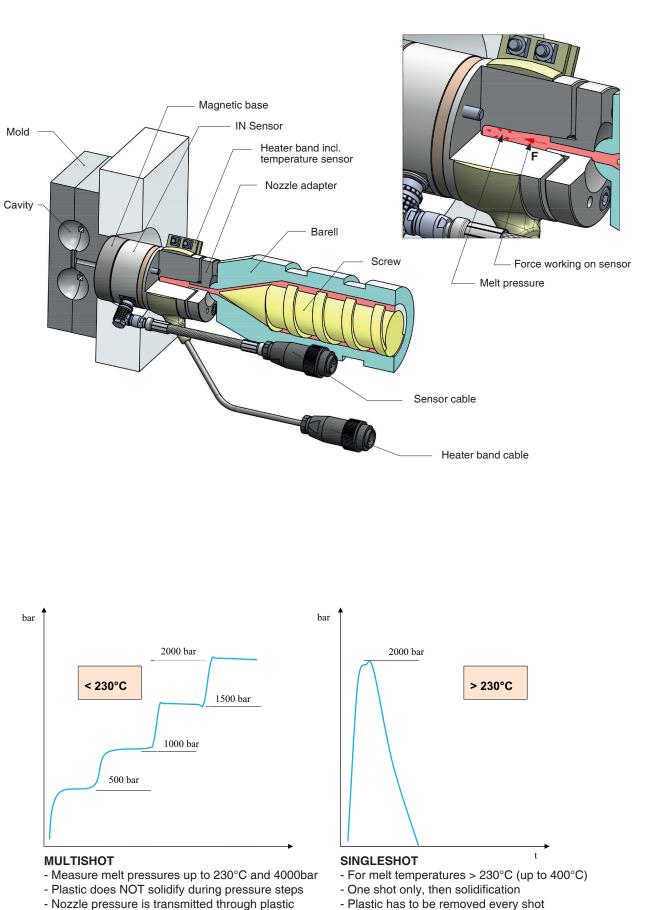
The In-4000 SET measures in the injection moulding machine the nozzle pressure compare to the injection pressure. This is especially important in processes according to ISO9000. The Nozzle pressure sensor is mounted with magnetic force.

The nozzle injector of the injection moulding machine press directly on the nozzle adapter which protects the sensor against damage. After that the IN Sensor will be loaded with the melt of the injection pressure. The Heater band warms the Sensor up to 230°C so that the melt in the conical chamber remains liquide. This allows multiple measurements with different injection pressure.

TECHNICAL DATA

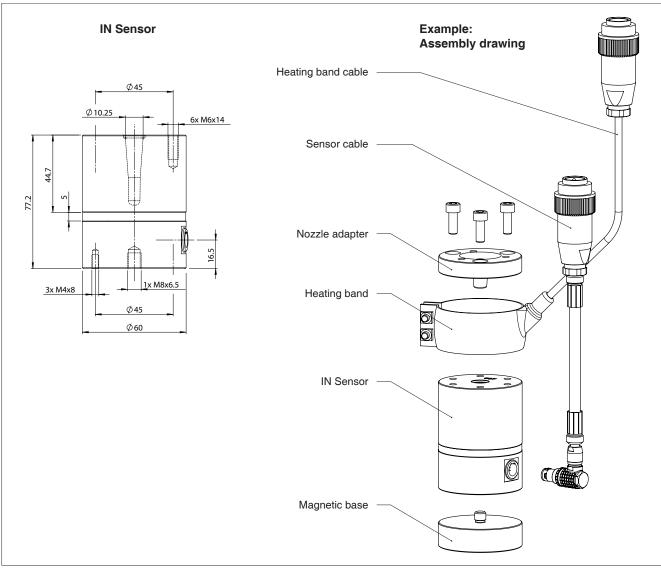
Strain gauge type	Foil
Measuring range	4000bar
Maximum touch force	300kN (@ 60 mm diameter)
Sensitivity	1.5 mV/V (nominal)
Accuracy Error	< ± 0.5% FS
Linearity Error	< 0.2% FS
Repeatability Error	< 0.2% FS
Operating temperatur range	10°+230°C (up to 400°C with singleshot application)
Storage temperatur range	-20°+70°C
Protection class	IP50
Case material	Stainless steel (high grade)

APPLICATION

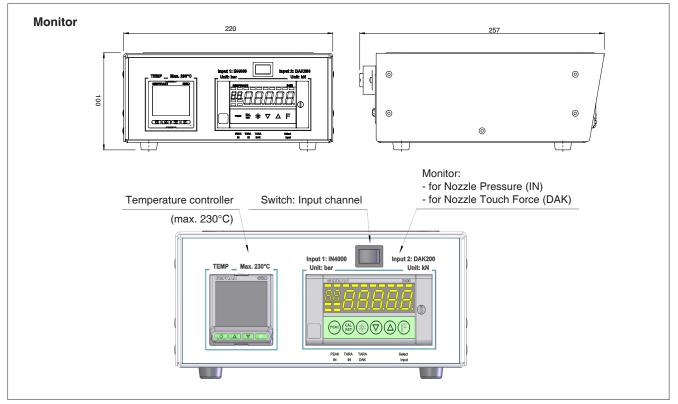


 Nozzle pressure is transmitted through pl onto the measuring element

DIMENSION

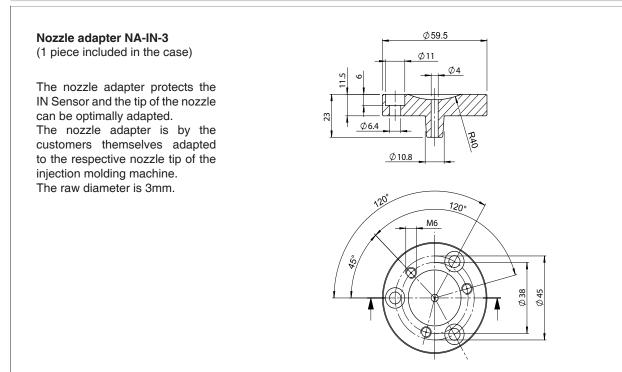


Dimensions in mm

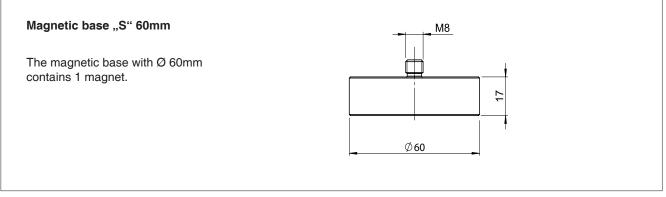


Dimensions in mm

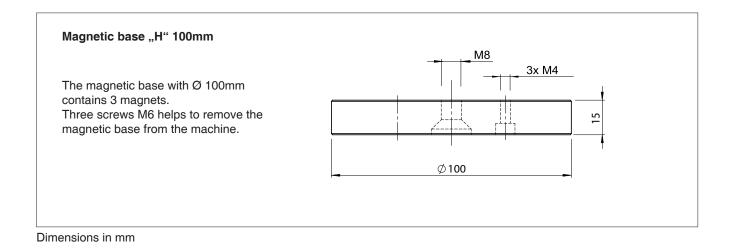
ASSESSORIES

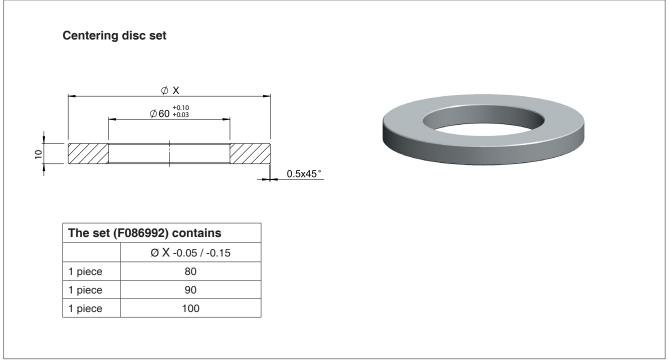


Dimensions in mm



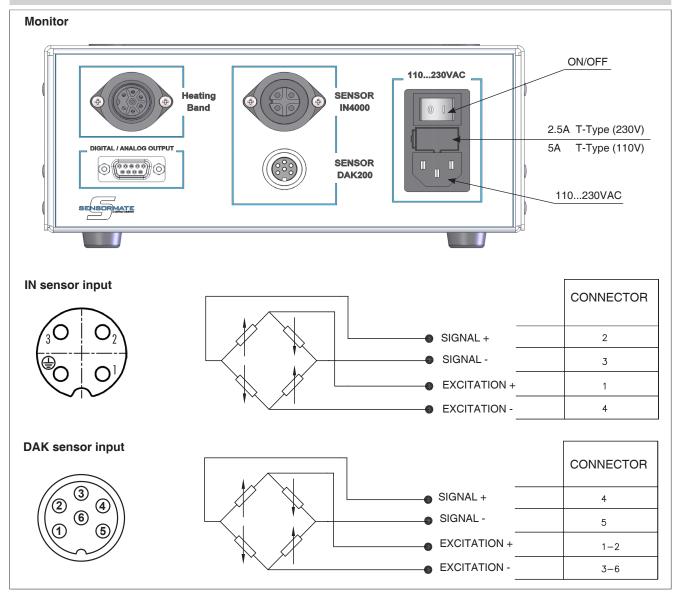
Dimensions in mm





Dimensions in mm

ELECTRICAL CONNECTIONS



ORDER CODE

Nozzle pressure sensor	IN ·	
Measuring range		
4000 bar	4000	
IN Sensor external diameter		
60 mm	S	
	U	
Connector and cable]
Cable length 3m	C30	
Magnetic base		۱ <u> </u>
External diameter 60 mm	S	
External diameter 100 mm	Н	
Monitor]
Monitor standard	М	
Monitor with digital output	D	
Heat band]
110VAC	1	
230VAC	2]
110VAC + 230VAC (two heat bands)	3	

ACCESSORIES

Description	Order code	Code
Single sensor without cable	IN - 4000 - S - C00 - O - O - 0	F089030
Single cable	IN - 0000 - O - C30 - O - O - 0	F083322
Nozzle adapter type NA-IN-3	NA-IN-3	F086990
Monitor standard	IN - 0000 - O - 000 - O - M - 0	F063416
Monitor with digital outout	IN - 0000 - O - 000 - O - D - 0	F069660
Magnetic base 60mm	IN - 0000 - O - 000 - S - O - 0	F068444
Magnetic base 100mm	IN - 0000 - O - 000 - H - O - 0	F069015
Centering disc set	CD - IN - 080 - 090 - 100	F086992
Heat band 110VAC	IN - 0000 - O - 000 - O - O - 1	F065947
Heat band 230VAC	IN - 0000 - O - 000 - O - O - 2	F062424
Heat band 110VAC + 230VAC (two heat bands)	IN - 0000 - O - 000 - O - O - 3	F069659

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.



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