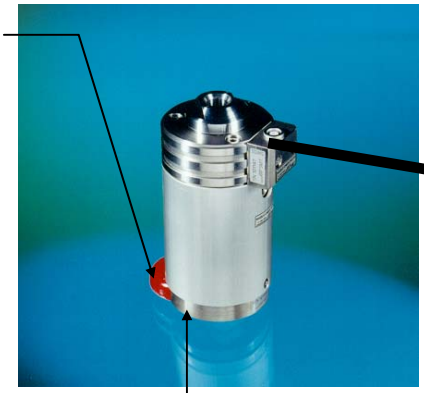
DUALSENSOR *'NOZZLE-MATE'*

MEASURE NOZZLE PRESSURE *(=Specific Injection Pressure)* **&** NOZZLE TOUCH FORCE *(=Carriage Force) AT THE SAME TIME:*

- **Proven Quartz-Technology for High Temperature Ranges**
- **Fits onto every machine - one sensor for the whole moulding shop**
- **Adapter plates for specific nozzles available**
- **Quick magnet mounting; instant results without any adaption-work**
- **Optional cooling systems allows the use in hot chamber die casting**
- **Optional heated nozzle for calibration of LOAD CELLS on all-electric injection moulding machines**

Sets: Set for Nozzle Pressure measurement, with Nozzle Pressure Sensor only, incl. Display Box,
Battery charger and Standard Nozzle Adapter
Options: - Another Nozzle Adapter
- Nozzle Adapter plate (no nozzle recess)
- Carrying case with insert
- Heated Nozzle for continuous pressure measurement (not only PEAK pressure)

Magnet base to hold the unit in place; included in every unit



Technical data

Nozzle Pressure Sensor:	
- Pressure range I	0...2000bar
- Pressure Range II	0...4000bar
- Max. Error	< 1% FS
- Temperature range	10...200°C
- Overload; max.	200%
- Reset/Calibration	Integrated
- Dimensions	Ø79 x 60mm
- can not be used for online measurement	
- only a small volume is filled with plastic	
Nozzle Touch Force Sensor:	
- Standard load range	0...400kN
- Calibrated partial range	0...200.0kN
- Max. Error	< 1%
- Strain gage Bridge	350 Ohm

Nozzle Touch Force sensor, Strain gage technology for static measurement, This sensor can be retrofitted to the Nozzle Pressure Sensor at any time.
load range: 400 kN
(partial range: 200.0 kN).

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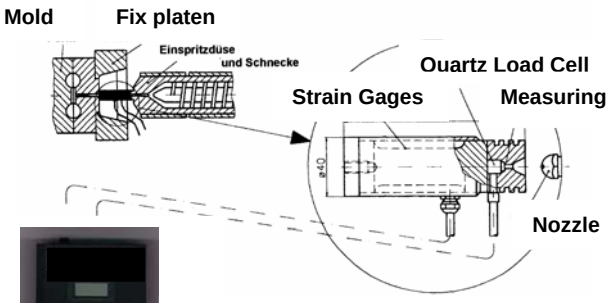
Advantage of this mesurment:

- **Recognise pressure drops hydraulic-→Nozzle**
- **Recognize wear of screw**
- **Fast, simple and reliable results**
- **Machine check within the ISO9000ff tests**
- **Data acquisition for set up protocols**
- **One sensor for the whole molding**



Sensor for :
Specific Injection Pressure: up to 4000bar
Nozzle Touch Force : up to 400 kN

Digital Dual-display instrument for the 'Nozzle-Mate' sensor. The Nozzle Pressure is indicated directly in bar, and the Nozzle Touch Force in kN. One channel Instruments are available to measure only one parameter.

NEW : NOZZLE PRESSURE & NOZZLE TOUCH FORCE MEASUREMENT

This new line of sensors is a world novelty: Two important molding parameters can be measured at the same time, in one mounting:

- **the Nozzle Touch Force(Strain Gauges) and**
- **Nozzle pressure (with Quartz Technology)**

Especially developed for injection molding and Die Casting Machines. The Nozzle Pressure(=specific Injection Pressure) is measured by a quartz load cell behind a measuring pin. Pressures up to 4000bar can be measured with high accuracy, by only injecting plastic into a recess in the sensor tip. The load cell measures static by means of bonded strain gauges. The load range of 40 tons scopes with even the largest machines

The DUALSENSOR measures the Nozzle Pressure and the Nozzle Touch force

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