

FLOW EXPERT Tool Tester



- Compact cooling channel tester for injection moulds
- Battery-powered, can be used off-mains
- Tests the flow rate and temperature of a cooling channel
- Combined flow and temperature sensor included
- Graphical display, plus data export via USB-C

Application

NOLDEN FlowExpert measures water flow rate and medium temperature in the cooling channels of injection moulds. If a desired operating range is entered beforehand, the device immediately determines whether the current values fall within that range; if not, a warning message is displayed. The trend of the value over time is also displayed graphically. The measured values can be exported via USB-C as a CSV file to Excel..

Set-up

Measuring circuit and high-contrast 3.5-inch touchscreen display in a compact plastic handheld casing. Battery-powered, so it can be used anywhere; it can be charged from any mains socket using the USB-C plug charger supplied.

How it works

FlowExpert is a fully automatic testing device which monitors the flow in a connected cooling duct and displays the result graphically on the device's bright colour display. Measurement is done using the flow and temperature sensor supplied. In addition to the current reading, it is possible to show the time-dependent trend as a graph for both flow and temperature,

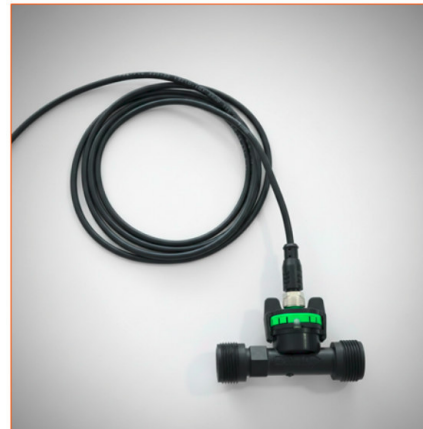


Fig.: Supplied flow sensor

In addition to the overview image, which provides a quick impression of the flow conditions in the cooling channel, further detailed



Fig.: Overview display for flow rate and temperature

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views showing the flow and temperature over time can be selected. The measured values can be exported via the device's USB-C socket as a CSV file for further processing in Excel.

Finally, in the settings view, the desired tolerance values can be entered and the sensor data calibrated.



Fig. : Example of the flow rate over time



Fig. :Data xport via WiFi

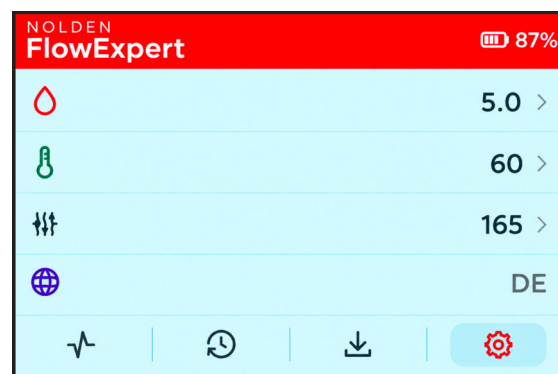


Fig. : Settings page for limit values and sensors

Technical data :

Operating voltage (charging power supply)

230V $\pm$ 10%, 48...63Hz

Battery

Type	xxxxx
Capacity	3500mAh
Charger	USB-C mains adapter
Runtime	ca. 8h

Sensor connection

M12, 4-pole, screw-lock

Flow sensor

Vortex sensor Autosen AS007,
Range 1,8 – 32 ltr./min,
Medium temperature -25-125°C,
Integrated temperature sensor Pt1000
Output 4..20mA
Protection rating sensor IP65
Connections 2x external thread 3/4"

Display

Resistive, touch-sensitive 3.5" TFT
Touchscreen

Accuracy

Approx. 2,5% f.s.

Charging cable

2m, black with angled wallplug

Casing

ABS, anthracite

Dimensions

(testing device)
153 x 92 x 34mm (W x H x D)

Weight

(testing device)
0,24 kg