

SHOTCRETE TESTING TOOL

DIGITAL PENETRATION NEEDLE

Force Gauge up to 1000 N

for the verification of shotcrete strength development according the

- „Austrian Guideline for Shotcrete – the Penetration needle method“ and
- EN 14488-2.

PenF 200 XY

Solid die cast aluminium body;

Measuring range 1000 N (shotcrete strength $\approx 1,5 \text{ N/mm}^2$);

Showing the peak value, if activated;

Measuring frequency 1000 Hz;

- Force gauge with durable measuring cell dimensioned for overload of 150 %;
- Reversible display;
- Temperatur range 0 ... +40°C
- data memory for 1000 metered values (Single values or series);
- USB interface to transfer metered values into external PC (Windows);
- Long operating time due to rechargeable Nickel-Hybrid-batteries, up to 8 hrs without recharging, loading time 16 hrs;
- Simply to use without obstructive handles;
- Assembled with test needle, power supply unit, hook, flathead, slot stick, pressing cone;
- Certificate of calibration;
- Data transfer software into MS excel file (for PenF 200 XY, download);
- Humidity range 35 – 85 % RH;
- Weight 500 g;
- Dimensions: 147 x 75 x 38 mm;



Accessories:

- Transport box;
- Power supply unit;
- Penetration needle of stainless steel $\varnothing 3 \text{ mm}$ tapered 60°, exchangeable;
- USB-cable;
- Introduction „Penetration Needle Method“ according EN 14488-2

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PenF 200 XY Penetrometer
Designed with shotcrete experts.

