Check Box 500 mobile - Hand-held instrument for industry

The new Check Box 500 mobile is an all-purpose hand-held measuring instrument for many applications in industry like e. g.:

▸ Flow measurement

▸ Pressure/vacuum measurement

▸ Temperature measurement

▸ Moisture/dew point measurement

The graphic indication of colored measurement curves is inimitably.
Up to 100 million measured values can be stored with date and name of measuring site. The measured values can be transferred to the computer by means of al USB stick. The data can be comfortably evaluated with the PMH Basic software.

Measured data and service reports can be issued easily and quickly. The following sensors can be connected to the freely configurable sensor input of Check Box 500 mobile:

▸ Pressure sensors (high and low pressure)

▸ Flow sensors, Flow Check/ Flow Check Universal

▸ Temperature sensors Pt 100, Pt 1000 / 4-20 mA

▸ Dew point sensors PDP Sens

▸ Effective power meters

▸ Optional third-party sensors with the following signals: 0-1/10 V, 0/4-20 mA, Pt 100, Pt 1000, pulse, Modbus

Special features:

▸ Universal sensor input for lots of common sensor signals

▸ Internal rechargeable Li-Ion batteries (approx. 12h continuous operation)

▸ 3.5" graphic display / easy operation via touch screen

▸ Integrated data logger for storage of the measured values

▸ USB interface for reading out via USB stick

▸ International: Up to 8 languages selectable

Measurement curves are indicated graphically and thus the user can see the behavior of the dryer at a glance since the start of the measurement.
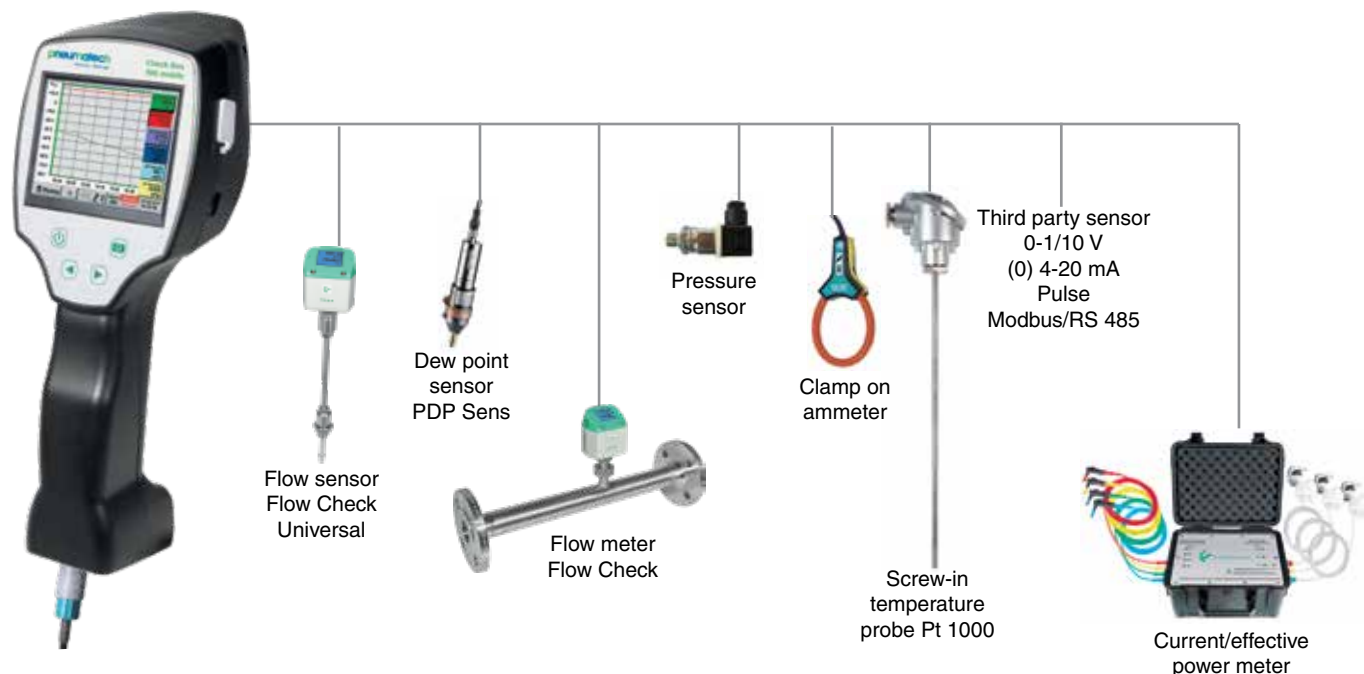

All physical parameters of moisture measurement are calculated automatically. The measured values of the external sensor will be displayed in addition.

It is possible to store up to 100 million measured values. Each measurement can be stored with a comment, e.g. measuring site name. The time interval can be freely determined.

Check Box 500 mobile - Hand-held instrument with large sensor selection

Flow sensor
Flow Check
Universal

Dew point
sensor
PDP Sens

Pressure
sensor

Flow meter
Flow Check

Clamp on
ammeter

Screw-in
temperature
probe Pt 1000

Third party sensor
0-1/10 V
(0) 4-20 mA
Pulse
Modbus/RS 485

Current/effective
power meter

Input signals	
Current signals Internal or external power supply Measuring range Resolution Accuracy Input resistance	(0-20mA/4-20mA) 0-20 mA 0.0001 mA ± 0.03 mA ± 0.05 % 50 Ω
Voltage signal Measuring range Resolution Accuracy Input resistance	(0-1 V) 0-1 V 0.05 mV ± 0.2 mV ± 0.05 % 100 kΩ
Voltage signal Measuring range Resolution Accuracy Input resistance	(0-10 V / 30 V) 0-10 V 0.5 mV ± 2 mV ± 0.05 % 1 MΩ
RTD Pt 100 Measuring range Resolution Accuracy	-200-850°C 0.1°C ± 0.2°C (-100-400°C) ± 0.3°C (further range)
RTD Pt 1000 Measuring range Resolution Accuracy	-200-850°C 0.1°C ± 0.2° (-100-400°C)
Impulse Measuring range	Min pulse length 500 µs frequency 0-1 kHz max. 30 VDC

Description	Order no.
Check Box 500 mobile portable measuring instrument with integrated data logger, incl. power supply	2255332520
Option for Check Box 500 mobile: "mathematiPMH calculation function" for 4 freely selectable „virtual" channels	2255332521
Option „Totalizer function for analogue signals"	2255332522
PMH Basic – data evaluation graphically and in tabular form - reading of the measured data via USB or Ethernet, license for 2 workstations	2255332468
Transport case	2255332523

Further sensors can be found on pages 30 to 33

Technical data check box 500 mobile	
Display	3.5˝ touchpanel TFT transmissive, graphics, curves, statistics
Interface	USB interface
Power supply for sensors	Output voltage: 24VDC ± 10% Output current: 120 mA in continuous operation
Power supply	Internal rechargeable Li-Ion batteries, charging time approx. 4 h, Check Box 500 mobile continuous operation> 4h depending on power consumption for ext. sensor
Power adapter	100 - 240 VAC / 50 - 60 Hz, 12 VDC - 1A, safety class 2 only for use in dry rooms
Dimensions	82 x 96 x 245 mm
Housing material	PC/ABS
Weight	450 g
Operating temperature	0-50°C Ambient temperature
Storage temperature	-20 bis +70°C
EMC	DIN EN 61326
Sensor input	For connection of pressure and temperature sensors, current clamps, external sensors with 4 - 20 mA, 0-10V, Pt 100, Pt 1000, Modbus
Memory Size	8 GB - Memory card standard