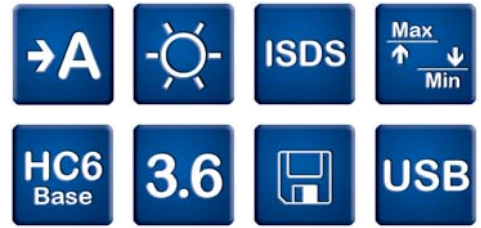


MultiHandy 2020

This measuring device is captivating by its easy user friendly operation. Each measuring set has everything needed for immediate plug and play measurements. Connect sensors – switch device on – read measured values.



- ✓ **Fast & easy to measuring success:**
plug – switch on – measure
- ✓ **Less errors:**
no programming required due to automatic sensor detection
- ✓ **PC connection included:**
data transfer via USB, evaluation software free of charge
- ✓ **Large internal memory:**
for more than 160 hours of data recording
- ✓ **Powerful batteries:**
measure the whole day without re-charging
- ✓ **Various functions:**
even for demanding measuring tasks

MultiHandy 2020 Technical data

Inputs and channels

Analog input channels	2x (for sensors with or without Hydrotechnik ISDS)
Signals	0/4 ... 20 mA (sensors without ISDS only 0 ... 20 mA)
A/D converter	12 bit
Measuring rate	1,000 values per second
Error limits	± 0.2 % of measured value
Electrical meas. connector	6 pole jack, compatible to DIN 45 322, IEC 60130-9
Special channels	1x
Calculations	difference

MultiHandy 2020 Technical data

Data memory

Type	Flash 128 kB
Measuring series	1
Values per series	max. 60,000
Recording rate	1 ms / 10 ms / 100 ms / 1 s / 10 s (settable)
Recording time	30 s ... ~ 166 h

Equipment

Display	2.5" LCD, illuminated
Software filter	switchable
Interface	USB 2.0 UART (virtual COM interface)
Power supply – mains	Power pack (plug version) 6 VDC / 850 mA
– batteries	NiMH / 2x AA / 2.4 V / 2,500 mAh
– battery performance	max. 10 h
– sensors	12 V / 100 mA

Qualities

Casing	ABS plastic, RAL 3004
Dimensions	~ 185 x 90 x 46 mm (L x W x H)
Weight	~ 292 g
Protection type	IP 40
Temperature – operation	0 ... 60 °C @ 0 ... 80 % r.h. (not condensing)
– storage	-20 ... +70 °C
Stability	tested acc. to IEC 60068

MultiHandy 2020 Order data

Single unit

Range of delivery	Order N°
<ul style="list-style-type: none"> • Measuring device • Power pack 6 VDC with country-specific adaptors • USB cable • Short operating instructions manual • HYDRocom 6 Base as download free of charge 	3160-00-69.00

MultiHandy 2020 Order data and accessories

Measuring set



Pressure measurement	Order N°
<ul style="list-style-type: none"> All components of the single unit 2x HySense® PR 109 pressure sensor with attached measuring cable, 2.5 m, 2x Minimess® direct connector 1620 Plastic case, red 	2020D-pp-xx ¹ -xx ¹
	1: see below for measuring range codes

Available pressure sensors for measuring set MultiHandy 2020	Code
0 ... 600 bar 0 ... 8,700 psi 0 ... 60 MPa	18
0 ... 400 bar 0 ... 5,800 psi 0 ... 40 MPa	15
0 ... 200 bar 0 ... 2,900 psi 0 ... 20 MPa	10
0 ... 60 bar 0 ... 870 psi 0 ... 6 MPa	21
-1 ... +6 bar -14 ... +87 psi -0.1 ... +0.6 MPa	32

Accessories

Measuring cables are contained in the chapter „Accessories“

Compatible sensors (further sensors on request)	Order N°
<ul style="list-style-type: none"> Temperature sensor HySense® TE 100, -50 ... +200 °C, 0 ... 20 mA, ISDS 	3973-04-S-01.00S
<ul style="list-style-type: none"> Temperature – surface / immersion sensor HySense® TE 200, -50 ... +200 °C, 4 ... 20 mA, ISDS 	3170-01-S-03.00 3170-01-S-06.00
<ul style="list-style-type: none"> Rotational speed sensor HySense® RS 110, 4 ... 20 mA, ISDS 	3130-06-S-01.00
<ul style="list-style-type: none"> Volume flow rate – turbine HySense® QT 110, e.g. 9 ... 300 l/min, 0 ... 20 mA, ISDS calibrated for mineral oil with 30 cSt 	31G7-71-S-35.030
<ul style="list-style-type: none"> Volume flow rate – turbine HySense® QT 210, e.g. 9 ... 300 l/min, 0 ... 20 mA, ISDS calibrated for watery media 	33G7-78-S-35.V012G

Car connection cable, 12 ... 24 V DC – 6.0 V DC, 4.0 m	8812-09-04.00
Power pack (plug version), 230 V AC – 6.0 V DC	8812-00-00.33
USB cord, 2.0 m	8824-F4-02.00
Upgrade HYDRO com 6, Base to Full, 3 licenses	8874-19-01.02
Upgrade HYDRO com 6, Base to Professional, 3 licenses	8874-19-01.01
Calibration, single channels or as measuring chain with sensors (option)	3199-12-00.11
Service package Basic	3199-30-00.01
Service package Plus	3199-30-01.01
Service package Professional	3199-30-02.01