

# MultiHandy 3020 / 3025

This device has three input channels, a robust casing and the USB interface and covers the basic demands of mobile measuring data collection in a reliable way. Calculations can be executed in real time on an additional channel. This allows to determine, display and record  $\Delta p$  fast and easy.



**MultiHandy 3020**

- ✓ **Very flexible:**  
two analog and one frequency input channel
- ✓ **High operation friendliness:**  
large keys, illuminated display
- ✓ **Very suitable for daily use:**  
robust construction in Aluminium casing
- ✓ **Large internal memory:**  
for est. one million measured values
- ✓ **Powerful batteries:**  
measure the whole day without re-charging
- ✓ **Individual:**  
also available with capacitive keypad



**MultiHandy 3025**

**MultiHandy 3025:** identical measuring device, but with capacitive keypad and newly designed operation area. Eases one-hand operation and accelerates the scrolling of menu parameters.

## Inputs and channels

Analog input channels	2x (for sensors with or without Hydrotechnik ISDS)
Signals	0/4 ... 20 mA
A/D converter	12 bit
Measuring rate	1,000 values per second
Error limits	± 0.2 % FS
Frequency input channels	1x (for sensors with or without Hydrotechnik ISDS)
Signals	0.25 Hz ... 5 kHz
Measuring rate	1 kHz
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, sum, 1. derivation, hydraulic power

## Data memory

Type	Flash 2 MB
Measuring series	14
Values per series	1,000,000 (analog) / 333,000 (frequency)
Recording rate	1 ms ... 10 min. (settable)
Recording time	1 s ... 999 h
Trigger	1x
Pretrigger	0 ... 100 %

## Equipment

Display	2.1" LCD, illuminated
Interface	USB 2.0 / FS device
Power supply – mains	Power pack 24 VDC / 340 mA
– batteries	NiMH / 14.4 V / 1,100 mAh
– battery performance	max. 16 h
– sensors	> 13 V (battery operation) / > 18 V (mains operation)

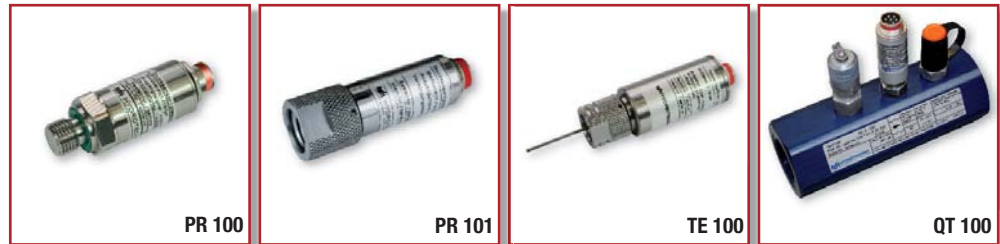
## Qualities

Casing	Aluminium, RAL 3004
Dimensions	~ 160 x 80 x 40 mm (L x W x H)
Weight	~ 661 g
Protection type	IP 40
Temperature – operation	0 ... 50 °C @ 0 ... 80 % r.h. (not condensing)
– storage	-20 ... +50 °C

## Single unit

Range of delivery	Order N°
MultiHandy 3020, standard keypad	3160-00-72.00
MultiHandy 3025, capacitive keypad	3160-00-73.00
<ul style="list-style-type: none"> <li>• Power pack 24 VDC with country-specific adaptors</li> <li>• USB cable</li> <li>• Short operation instructions</li> <li>• Data CD with <b>HYDRocom</b> 6 Base</li> </ul>	

## Measuring sets



Pressure measurement	Order N°
<b>Version A</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• <b>HYDRocom</b> 6, program version Full, 3 licenses</li> <li>• 2x HySense® PR 100 pressure sensor</li> <li>• 2x Minimes® direct connector 1620</li> <li>• 2x measuring cable standard, 5.0 m</li> <li>• Plastic case, black</li> </ul>	3020A-pp-xx <sup>1</sup> -xx <sup>1</sup> 3025A-pp-xx <sup>1</sup> -xx <sup>1</sup>
<b>Version B</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• <b>HYDRocom</b> 6, program version Full, 3 licenses</li> <li>• 2x HySense® PR 101 pressure sensor</li> <li>• 2x measuring cable standard, 5.0 m</li> <li>• Plastic case, black</li> </ul>	3020B-pp-xx <sup>1</sup> -xx <sup>1</sup> 3025B-pp-xx <sup>1</sup> -xx <sup>1</sup>
	1: see below for measuring range codes

Pressure and temperature measurement	Order No
<b>Version A</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• <b>HYDRocom</b> 6, program version Full, 3 licenses</li> <li>• 1x HySense® PR 100 pressure sensor</li> <li>• 1x Minimes® direct connector 1620</li> <li>• 1x HySense® TE 100 temperature sensor</li> <li>• 2x measuring cable standard, 5.0 m</li> <li>• Plastic case, black</li> </ul>	3020A-pT-xx <sup>1</sup> 3025A-pT-xx <sup>1</sup>
<b>Version B</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• <b>HYDRocom</b> 6, program version Full, 3 licenses</li> <li>• 1x HySense® PR 101 pressure sensor</li> <li>• 1x HySense® TE 100 temperature sensor</li> <li>• 2x measuring cable standard, 5.0 m</li> <li>• Plastic case, black</li> </ul>	3020B-pT-xx <sup>1</sup> 3025B-pT-xx <sup>1</sup>
	1: see below for measuring range codes

# MultiHandy 3020 / 3025 Order data and Accessories

## Measuring sets

Pressure, temperature and volume flow rate measurement	Order No
<b>Version A</b> <ul style="list-style-type: none"> <li>All components of the single unit</li> <li><b>HYDROcom 6</b>, program version Full, 3 licenses</li> <li>1x HySense® PR 100 pressure sensor</li> <li>1x Minimes® direct connector 1620</li> <li>1x HySense® TE 100 temperature sensor</li> <li>1x HySense® volume flow rate sensor</li> <li>3x measuring cable standard, 5.0 m</li> <li>Plastic case, black</li> </ul>	3020A-pTQ-xx <sup>1</sup> -yy <sup>2</sup> 3025A-pTQ-xx <sup>1</sup> -yy <sup>2</sup>  1: see below for measuring range codes 2: see below for measuring range codes
<b>Version B</b> <ul style="list-style-type: none"> <li>All components of the single unit</li> <li><b>HYDROcom 6</b>, program version Full, 3 licenses</li> <li>1x HySense® PR 101 pressure sensor</li> <li>1x HySense® TE 100 temperature sensor</li> <li>1x HySense® volume flow rate sensor</li> <li>3x measuring cable standard, 5.0 m</li> <li>Plastic case, black</li> </ul>	3020B-pTQ-xx <sup>1</sup> -yy <sup>2</sup> 3025B-pTQ-xx <sup>1</sup> -yy <sup>2</sup>  1: see below for measuring range codes 2: see below for measuring range codes

Meas. ranges PR 100 / PR 101	Code	Measuring ranges QT 100	Code
0 ... 600 bar   0 ... 8,700 psi	18	16 ... 600 l/min   4.25 ... 158.5 gpm	72
0 ... 400 bar   0 ... 5,800 psi	15	9 ... 300 l/min   2.35 ... 79.25 gpm	71
0 ... 200 bar   0 ... 2,900 psi	10	2 ... 75 l/min   0.5 ... 19.8 gpm	70
0 ... 60 bar   0 ... 870 psi	21	1 ... 10 l/min   0.26 ... 2.6 gpm	01
-1 ... +6 bar   -14 ... +87 psi	32		

## Accessories

Measuring cables are contained in the chapter „Accessories“

Power pack (plug version), 110/240 VAC, 50/60 Hz – 24 VDC/630 mA	8812-20-02.00
Power pack (table version), 100/240 VAC, 50/60 Hz – 24 VDC/630 mA	8812-02-01.00
Car connection cable, 12 VDC – 24 VDC, 5.0 m	8824-64-05.00
Batteries, NiMH, 14.4 V, 1,100 mAh	8873-08-02.00
USB cable, USB-A – USB-B, USB 2.0, 2.0 m	8824-F4-02.00
Nylon bag, black	8875-01-02.00
Transportation case, black, with turbine compartment	3160-00-62.06
Data CD, software and operation instructions manual	8874-16-00.01
Upgrade <b>HYDROcom 6</b> , Full 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	3199-30-01.02
Service package Professional	3199-30-02.02