

MultiHandy 3020 / 3025

... even for rough environmental conditions

The MultiHandy 302x covers the basic requirements to mobile measuring data collection reliably with three input channels, the robust casing and the USB interface.

Channels	4
Analog sensors	2
Frequency sensors	1
Measuring value memory	2 MB

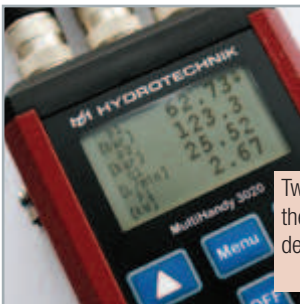


MultiHandy 3025



MultiHandy 3020

Ready for everything



Two analog, a frequency input and the calculated channel cover all demands reliably.

State-of-the-Art



All measuring data can be downloaded fast and comfortably using the USB interface.

When the going gets tough



The solid aluminium casing protects the electronic and fits the hand nicely.

Easy to operate



Several fast access keys and the logical menu structure allow short training times.

Technical data

Channels

Analog channels standard signals	2 (with Hydrotechnik ISDS)
signals	0/4 ... 20mA
A/D converter	12 bit
measuring rate	1 kHz
error limit	± 0.2% FS
electrical connection	6-pole jack, compatible to DIN 45 322, IEC 60130-9
Measuring channels frequency	1 (with Hydrotechnik ISDS)
signals	0.25 Hz ... 5 kHz
measuring rate	~10 ms
error limit	± 0.2% of measured value
electrical connection	6-pole jack, compatible to DIN 45 322, IEC 60130-9
Special channels	1
calculations	difference, sum, 1. derivation, hydraulic power

Measuring value memory

Type	Flash 2MB
Max. number of measuring series	14
Max. number of values per series	1,000,000 (analog), 333,000 (frequency)
Recording rate	1 ms ... 10 min
Recording time	1 s ... 999 h
Number of triggers	1
Pretrigger	0 ... 100%

Equipment and features

Display	2.1" LCD b/w, illuminated
Interfaces	USB 2.0 / FS device
Power supply	Power pack (24 VDC / 340 mA), Batteries (NiMH / 14.4 V / 1,100 mAh)
battery performance ¹	16 h
Sensor power supply	> 13 V (battery operation) / > 18 V (power pack operation)
Casing	Aluminium
Dimensions (L x W x H)	~ 160 x 80 x 40 mm
Weight	~ 661 g
Protection type	IP 40
Operation temperature	0 ... 50 °C
Storage temperature	-20 ... +50 °C
Relative humidity	0 ... 80% r.H. (not condensing)

1: 12 mA load at all measuring channels (equates to analog sensors 4 ... 20 mA, or turbine with frequency signal, each at 50 % load), new batteries, completely charged

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Range of delivery and Order numbers

Instruments and Measuring sets

	Power pack with adaptors	USB cable 2.0 m	Data CD	Minimess® 1620 direct connector	Pressure sensor PR 100	Pressure sensor direct connector PR 101	Temperature sensor TE 100	Measuring turbine QT 100	Measuring cable, 5.0 m	Transport case, plastic	
MultiHandy 3020	•	•	•	–	–	–	–	–	–	–	3160-00-72.00
MessSet A pp	•	•	•	2x	2x	–	–	–	2x	•	3020A-pp-xx¹-xx¹
MessSet B pp	•	•	•	–	–	2x	–	–	2x	•	3020B-pp-xx¹-xx¹
MessSet A pT	•	•	•	1x	1x	–	•	–	2x	•	3020A-pT-xx¹-xx¹
MessSet B pT	•	•	•	–	–	1x	•	–	2x	•	3020B-pT-xx¹-xx¹
MessSet A pTQ	•	•	•	1x	1x	–	•	•	3x	•	3020A-pTQ-xx¹-xx¹-yy²
MessSet B pTQ	•	•	•	–	–	1x	•	•	3x	•	3020B-pTQ-xx¹-xx¹-yy²
MultiHandy 3025	•	•	•	–	–	–	–	–	–	–	3160-00-73.00
MessSet A pp	•	•	•	2x	2x	–	–	–	2x	•	3025A-pp-xx¹-xx¹
MessSet B pp	•	•	•	–	–	2x	–	–	2x	•	3025B-pp-xx¹-xx¹
MessSet A pT	•	•	•	1x	1x	–	•	–	2x	•	3025A-pT-xx¹-xx¹
MessSet B pT	•	•	•	–	–	1x	•	–	2x	•	3025B-pT-xx¹-xx¹
MessSet A pTQ	•	•	•	1x	1x	–	•	•	3x	•	3025A-pTQ-xx¹-xx¹-yy²
MessSet B pTQ	•	•	•	–	–	1x	•	•	3x	•	3025B-pTQ-xx¹-xx¹-yy²

- 1: xx is the measuring range code, see order data pressure sensor HySense® PR 100
 2: yy is the measuring range code, see order data volume flow rate sensor HySense® QT 100

More usability

PC software

Task	Recom. software	Delivery	Order number
Firmware update	HYDROboot	yes	8874-14-11.01
Instrument remote configuration	–	no	–
Instrument remote operation	–	no	–
Execute online measurements	HYDROcom	yes¹	8874-13-01.02
Download measurement data	HYDROcom	yes¹	8874-13-01.02
Evaluate and present measurement data	HYDROcom	yes¹	8874-13-01.02
Program measurement procedures	–	no	–
Execute measurement procedures	–	no	–

- 1: **HYDROcom** Base

Accessories

Power pack	110/240 VAC, 50/60 Hz – 24 VDC/630 mA	8812-20-02.00
Table-top power pack	100/240 VAC, 50/60 Hz – 24 VDC/630 mA	8812-02-01.00
Car power supply	12 VDC – 24 VDC; cable length 5.0 m	8824-64-05.00
Batteries	NiMH; 14.4 V; 1,100 mAh	8873-08-02.00
USB cable	Plug USB-A/-B; highspeed USB 2.0; 2.0 m	8824-F4-02.00
Transport case	Plastic, black, with volume flow sensor box	3160-00-62.06
Protective bag	Nylon, black, front transparent film	8875-01-02.00
Calibration	single or as measuring chain, per channel	3199-12-00.11
Service package	Basic	3199-30-00.01
	Plus	3199-30-01.02
	Professional	3199-30-02.02

Additional accessories (cables, Minimess® products, a.s.o.) in the section „Accessories“