

# MultiHandy 3050

## ... entry into system technology

The MultiHandy 3050 opens up wide-spread possibilities in the world of professional measuring technology with its four input channels, powerful firmware, large memory and the USB interface.

Channels	5
Analog sensors	3
Frequency sensors	1
Measuring value memory	900 kB

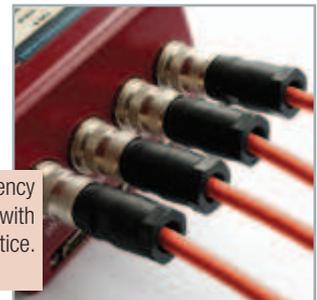


### Great variety



USB, RS232 and Centronics interfaces for highest possible openness for customer-side environments.

### Four channels



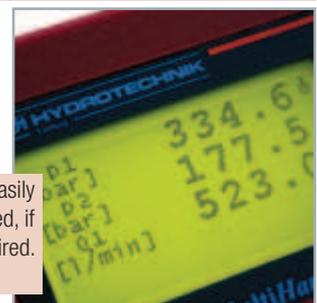
Three analog and a frequency channel for measuring in step with actual practice.

### Great usability



Clearly structured keypad for easy operation.

### Clear display



Measuring values can be read easily from the large display. Illuminated, if desired.

# MultiHandy 3050

## Technical data

### Channels

Analog channels standard signals	3 (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	1 Hz ... 5 kHz
measuring rate	~18 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	SD-RAM 900 kB
Max. number of measuring series	5
Max. number of values per series	450,000 (analog), 150,000 (frequency)
Recording rate	1 ms ... 10 min
Recording time	1 s ... 999 h
Number of triggers	1
Pretrigger	0 ... 100%

### Equipment and features

Display	3.1" LCD b/w, illuminated
Interfaces	USB 1.1 / FS device, RS232, Centronics
Power supply	Power pack (24 VDC / 340 mA), batteries (NiMH / 14.4 V / 1,800 mAh)
battery performance <sup>1</sup>	16 h
Sensor power supply	> 14.4 V
Casing	ABS plastics
Dimensions (L x W x H)	~ 200 x 107 x 80 mm
Weight	~ 884 g
Protection type	IP 40
Operation temperature	0 ... 50 °C
Storage temperature	-20 ... +70 °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-cord 2.0 m	Data CD	Minimess® 1620 direct connector	Pressure sensor PR 100	Pressure sensor with direct connector PR 101	Temperature sensor TE 100	Measuring turbine QT 100	Measuring cable, 5.0 m	Transport case, plastic	
MultiHandy 3050	•	•	•	–	–	–	–	–	–	–	3160-00-63.00
MeasSet A pp	•	•	•	2x	2x	–	–	–	2x	•	3050A-pp-xx <sup>1</sup> -xx <sup>1</sup>
MeasSet B pp	•	•	•	–	–	2x	–	–	2x	•	3050B-pp-xx <sup>1</sup> -xx <sup>1</sup>
MeasSet A ppT	•	•	•	2x	2x	–	•	–	3x	•	3050A-ppT-xx <sup>1</sup> -xx <sup>1</sup>
MeasSet B ppT	•	•	•	–	–	2x	•	–	3x	•	3050B-ppT-xx <sup>1</sup> -xx <sup>1</sup>
MeasSet A ppTQ	•	•	•	2x	2x	–	•	•	4x	•	3050A-ppTQ-xx <sup>1</sup> -xx <sup>1</sup> -yy <sup>2</sup>
MeasSet B ppTQ	•	•	•	–	–	2x	•	•	4x	•	3050B-ppTQ-xx <sup>1</sup> -xx <sup>1</sup> -yy <sup>2</sup>

- 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	<b>HYDROboot</b>	yes	8874-14-11.01
Instrument remote configuration	–	no	–
Instrument remote operation	–	no	–
Execute online measurements	<b>HYDROcom</b>	yes <sup>1</sup>	8874-13-01.02
Download measurement data			
Evaluate and present measurement data			
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
Power cord USA	... for table-top power pack, cord length 2.0 m	8824-G6-02.00
Car power supply	12 VDC – 24 VDC; cable length 5.0 m	8824-64-05.00
Transport case	Plastic, black, with measuring turbine box	3160-00-62.06
	Aluminium, red, without measuring turbine box	3160-00-70.02
	Aluminium, red, with measuring turbine box	3160-00-70.03
Protective bag	Nylon, black, front transparent film	8875-01-05.00
Data transmission cord	USB-RS 232 adaptor cable	8824-G0-00.21
Calibration	single or as measuring chain, per channel	3199-12-00.11
Service packages	Basic	3199-30-00.02
	Plus	3199-30-01.03
	Professional	3199-30-02.03

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