

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 Δp 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.

MultiHandy 3020 / 3025 Technical data

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

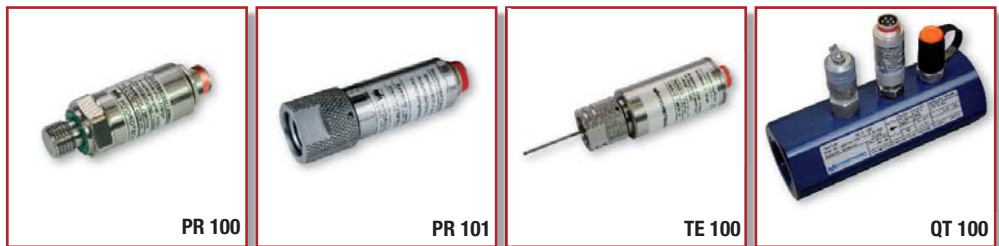
| | |
|-------------------------|--|
| Casing | Aluminium, RAL 3004 |
| Dimensions | ~ 160 x 80 x 40 mm (L x W x H) |
| Weight | ~ 661 g |
| Protection type | IP 40 |
| Temperature – operation | 0 ... 50 °C @ 0 ... 80 % r.h. (not condensing) |
| – storage | -20 ... +50 °C |

MultiHandy 3020 / 3025 Order data

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"> • Power pack 24 VDC with country-specific adaptors • USB cable • Short operation instructions • Data CD with HYDRocom 6 Base | |

Measuring sets



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

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

MultiHandy 3020 / 3025 Order data and Accessories

Measuring sets

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