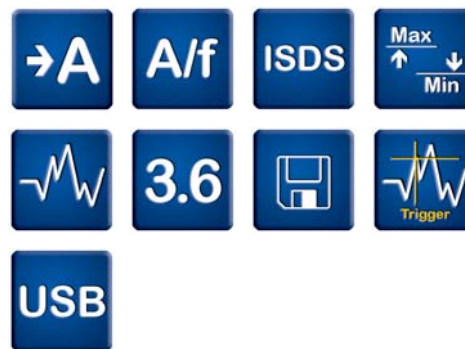


MultiBox 3060 / 3061 / 3065

Whether as a measuring box connected to a PC or as an independent data logger, highest flexibility and perfect protection against environmental conditions make the **MultiBox** measuring instrument the universal solution for many industrial measuring tasks.



- ✓ **Fits perfectly:**
three types and six versions
- ✓ **Very easy to use:**
power supply and data transfer via USB
- ✓ **Universal use:**
measuring box via PC or an independent data logger
- ✓ **Robust construction:**
protected acc. to IP 54 in a stable casing (not MB 3065)
- ✓ **Complete software package:**
remote control, online measuring, data analysis and evaluation
- ✓ **Complete system integration:**
compatible with all Hydrotechnik measuring products

Versions



MultiBox 3060

with USB interface the indispensable companion of your laptop: fully fledged measuring device with user-friendly software

MultiBox 3061

like MultiBox 3060, but with internal data memory and connector for power pack or battery pack: measuring box and data logger in one

MultiBox 3065

like MultiBox 3061, but with Ethernet interface for seamless integration into networks and plant controls

HYDR0work



The comfortable operation software to use all functions of the MultiBox. Easy programming of the device parameters, clear visualisation of the measuring results and fast recording of all data are the most important features.

Inputs and channels

Analog input channels	3x (for sensors with or without Hydrotechnik ISDS)
Signals	0/4 ... 20 mA or 0/2 ... 10 V (due to device version)
A/D converter	12 bit
Measuring rate	1,000 values per second
Error limits	± 0,1 % FS
Switchable input channel	1x (for sensors with or without Hydrotechnik ISDS)
Signals	0/4 ... 20 mA or 0/2 ... 10 V (due to device version) 1.0 Hz ... 5 kHz (w.D.) or 1.0 Hz ... 10 kHz (w.o.D.)
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	2x
Calculations	difference, hydraulic power

Data memory

not MultiBox 3060

Type	SD-Karte 2 GB
Measuring series	200
Values per series	36,000,000 (data logger) / 15,000,000 (PC mode)
Recording rate	1 ms ... 1 min. (settable in steps)
Recording time	1 s ... 48 h (settable in steps)
Trigger	1x (option 4x, linkable)
Pretrigger	0 / 10 / 20 / ... 100 %

Equipment

Interface	USB 2.0 / FS device
Power supply	5.0 VDC (via USB)
Mains power supply	9 ... 30 VDC (option, only for MB 3061 and 3065)
Current consumption	< 500 mA (MB 3060) / < 600 mA (MB 3061 and 3065)
Sensor current consumption	max. 100 mA (sum)

Qualities

Casing	Aluminium with protected edges and corners
Dimensions	~ 120 x 124 x 52 mm (L x W x H)
Weight	~ 492 g (MB 3060) / ~ 520 g (MB 3065)
Protection type	IP 54 (MB 3060 and 3061) / IP 40 (MB 3065)
Temperature – operation	-35 ... +60 °C (MB 3060 and 3061) / 0 ... +50 °C (MB 3065)
– storage	-40 ... +70 °C

Single unit

Range of delivery	Order N°
MultiBox 3060, measuring box, input signal mA	3160-00-00.85
MultiBox 3060, measuring box, input signal V	3160-00-00.95
MultiBox 3061, USB data logger, input signal mA	3160-00-00.86
MultiBox 3061, USB data logger, input signal V	3160-00-00.96
MultiBox 3065, USB/Ethernet data logger, input signal mA	3160-00-00.87
MultiBox 3065, USB/Ethernet data logger, input signal V	3160-00-00.97
<ul style="list-style-type: none"> • USB cable • HYDROwork • HYDROcom 6 Base 	

Measuring sets



Pressure measurement	Order N°
Version A <ul style="list-style-type: none"> • All components of the single unit (input signal mA) • 2x HySense® PR 100 pressure sensor • 2x Minimess® direct connector 1620 • 2x measuring cable standard, 5.0 m • Plastic case, black 	3060A-pp-xx ¹ -xx ¹ 3061A-pp-xx ¹ -xx ¹ 3065A-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 (input signal mA) • 2x HySense® PR 101 pressure sensor • 2x measuring cable standard, 5.0 m • Plastic case, black 	3060B-pp-xx ¹ -xx ¹ 3061B-pp-xx ¹ -xx ¹ 3065B-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 (input signal mA) • 2x HySense® PR 100 pressure sensor • 1x HySense® TE 100 temperature sensor • 2x Minimess® direct connector 1620 • 3x measuring cable standard, 5.0 m • Plastic case, black 	3060A-ppT-xx ¹ -xx ¹ 3061A-ppT-xx ¹ -xx ¹ 3065A-ppT-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 (input signal mA) • 2x HySense® PR 101 pressure sensor • 1x HySense® TE 100 temperature sensor • 3x measuring cable standard, 5.0 m • Plastic case, black 	3060B-ppT-xx ¹ -xx ¹ 3061B-ppT-xx ¹ -xx ¹ 3065B-ppT-xx ¹ -xx ¹ <small>1: see below for measuring range codes</small>

Measuring Sets



3061A-ppTQ

Pressure, temperature and volume flow rate measurement

Order N°

Version A

- All components of the single unit (input signal mA)
- 2x HySense® PR 100 pressure sensor
- 2x Minimess® direct connector 1620
- 1x HySense® TE 100 temperature sensor
- 1x HySense® QT 100 volume flow rate sensor
- 4x measuring cable standard, 5.0 m
- Plastic case, black

3060A-
3061A-
3065A-
ppTQ-xx¹-xx¹-yy²

1: see below for measuring range codes
2: see below for measuring range codes

Version B

- All components of the single unit (input signal mA)
- 2x HySense® PR 101 pressure sensor
- 1x HySense® TE 100 temperature sensor
- 1x HySense® QT 100 volume flow rate sensor
- 4x measuring cable standard, 5.0 m
- Plastic case, black

3060B-
3061B-
3065B-
ppTQ-xx¹-xx¹-yy²

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“



MultiBox 3065
with battery pack

Car connection cable, 12 VDC, 5.0 m

8824-P5-05.00

Power supply cable 250 V, open cable ends, 5.0 m

8824-P6-05.00

USB data cable, IP 67, USB-A – Mini-USB-B, 2.0 m

8824-P4-02.00

Measuring cable, IP 67, M16 x 0.75, 6 pole, 5.0 m

8824-S9-05.00

Power pack (plug version), IN: 110 ... 240 VAC, 47 ... 63 Hz / OUT: 24 VDC, 625 mA

8812-00-00.35

Transportation case, black, with turbine compartment

3160-00-62.09

Battery pack, ~ 2,000 mAh; IN: 24 VDC, 600 mA / OUT: 14.4 VDC

8873-30-01.00

Data CD, software and operation instructions manual

8874-16-00.01

Calibration, single channels or as measuring chain with sensors (option)

3199-12-00.11

Service package Basic

3199-30-00.02

Service package Plus

3199-30-01.04

Service package Professional

3199-30-02.04