

# MultiSystem 5060 Plus

**The mobile all rounder:** the perfect mobile measuring system with 24 channels, 2 GB data memory and powerful operating software. Use the graphic display to analyse measurements during recording, download measuring data fast and easy to a USB stick.



- ✓ For all measuring tasks:  
flexible hand held instrument with huge functionality
- ✓ Large display:  
impressive graphical performance with high resolution
- ✓ Live analysis of measuring data:  
descriptive line diagrams with zoom function
- ✓ Robust construction:  
shock-resistant casing with rigid connectors
- ✓ Highest flexibility:  
24 channels for freely definable measurements

## Inputs, outputs and channels

Analog input channels	4x standard, 2x HighSpeed (for sensors with or without Hydrotechnik ISDS)
Signals	0/4 ... 20 mA • 0/1/2 ... 10 V • 0.5 ... 4.5 V • $\pm 10$ V
A/D converter	13 bit
Meas. rate HighSpeed	10,000 values per second
Meas. rate standard	1,000 values per second
Error limits	$\pm 0.15$ % FS
Frequency input channels	2X (for sensors with or without Hydrotechnik ISDS)
Signals	0.25 Hz ... 20 kHz (w.o.D.) • 0.25 Hz ... 5 kHz (w.D.)
Measuring rate	10 ns
Error limits	$\pm 0.02$ % MV
Digital input	1x, galvanically separated, 3.5 ... 30 VDC
Measuring rate	1,000 values per second
Digital output	1x
max. load	$U_b / 10$ mA
reaction time	$\leq 1$ ms
Electrical meas. connector	6 pole jack, compatible to DIN 45 322, IEC 60130-9
Special channels	14x
Calculations	difference, sum, hydraulic power, CAN, ...
Free definable formulas	yes
CAN measuring rate	100 values per second
CAN protocols	CANopen, SAE J1939, ...
Filter functions	Hardware- (low-pass) and several software filters

## Data memory

Type	Micro SD card 2GB
Measuring series	200
Values per measuring series	2,000,000
Recording rate	1 ms ... 999 min. (settable)
Recording time	1 s ... 999 h (settable)
Trigger	2x, linkable (bigger, smaller, falling/rising edge)
Pretrigger	0 / 10 / 20 / ... 100 %

# MultiSystem 5060 *Plus* Technical data

## Equipment

Interfaces	USB 2.0 device • USB 2.0 host • RS 232
Battery power supply	NiMH batteries, 14.4 VDC, 2,150 mAh
Battery operation	max. 8 h
Mains operation power supply	12 ... 30 VDC
Sensor power supply	13 (battery operation) ... 22 (mains operation) VDC, 100 mA
CAN / MX power supply	Vs+ VDC, 180 ... 200 mA

## Qualities

Casing	Plastic PC + ABS + 20GF
Dimensions	~ 270 x 140 x 69 mm (L x W x H)
Weight	~ 1,277 g
Protection type	IP 40
Temperature – operation	-10 ... +50 °C @ max. 80 % r.h., not condensing
– storage	-20 ... +50 °C

# MultiSystem 5060 *Plus* Order data

## Single unit

Range of delivery	Order N°
MultiSystem 5060 Plus <ul style="list-style-type: none"> <li>• Power pack</li> <li>• USB cable</li> <li>• Data CD</li> <li>• <b>HYDRocom</b> 6 Full, 3 licenses</li> </ul>	3160-00-79.00

## Measuring sets



Pressure measurement	Order N°
<b>Version C</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• 2x HySense® PR 400 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>	5060C-pp-xx <sup>1</sup> -xx <sup>1</sup> <small>1: see below for measuring range codes</small>

## Measuring sets

Pressure and temperature measurement	Order N°
<b>Version C</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• 2x HySense® PR 400 pressure sensor</li> <li>• 1x HySense® TE 100 temperature sensor</li> <li>• 2x Minimes® direct connector 1620</li> <li>• 3x measuring cables standard, 5.0 m</li> <li>• Plastic case, black</li> </ul>	5060C-ppT-xx <sup>1</sup> -xx <sup>1</sup>  1: see below for measuring range codes

Measure pressure, temperature and volume flow rate	Order N°
<b>Version C</b> <ul style="list-style-type: none"> <li>• All components of the single unit</li> <li>• 2x HySense® PR 400 pressure sensor</li> <li>• 2x Minimes® direct connector 1620</li> <li>• 1x HySense® TE 100 temperature sensor</li> <li>• 1x HySense® QT 100 volume flow rate sensor</li> <li>• 4x measuring cables standard, 5.0 m</li> <li>• Plastic case, black</li> </ul>	5060C-ppTQ-xx <sup>1</sup> -xx <sup>1</sup> -yy <sup>2</sup>  1: see below for measuring range codes 2: see below for measuring range codes

Measuring ranges PR 400	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



Measuring set 5060C-ppTQ with sensors for pressure, temperature and volume flow rate, Minimes® connectors and accessories; the image shows optional components, like additional sensors, Patrick the particle counter and a MultiXtend module.

## Power supply

Power pack (plug version), 115 ... 230 VAC	8812-20-02.00
Power pack (table version), 115 ... 230 VAC	8812-02-01.00
Car connection cable, 12 VDC, 5.00 m	8824-64-05.00
Batteries	8873-07-01.00

## Cables

Measuring cables are contained in the section „Accessories“

CAN connection cable, plug – jack M12 x 1 (5 pole), for MultiXtend, 5.0 m	8824-R7-05.00
CAN connection cable, plug M12 x 1 (8 pole), open cable ends, 1.5 m	8824-R9-01.50
Multimeter connection cable, M12 x 1, 2.0 m	8824-R6-02.00
<b>HYDROboot</b> connection cable, 2.0 m	8824-R5-02.00
Patrick connection cable plug – jack M12 x 1 (8 pole) Y distributor required (see Patrick accessories)	2.5 m 8824-T2-02.50
	5.0 m 8824-T2-05.00
	10.0 m 8824-T2-10.00
Patrick connection cable plug – plug M12 x 1 (8 pol), use without Y distributor, power supply from measuring instrument	2.5 m 8824-T6-02.50
	5.0 m 8824-T6-05.00
	10.0 m 8824-T6-10.00
USB cable, USB-A – USB-B, 2.0 m	8824-F4-02.00

## Others

DIN rail mounting set, clip + rail + screws	8854-00-00.02
Velcro strip mounting set, 5 pieces	8840-00-00.13
Neck strap set, with fixing	8854-00-00.01
Data CD, software and operating instructions manual	8874-16-00.01
Plastic case, black, with compartments for turbine, Patrick, MultiXtend	8859-02-02.03
Plastic case, red, with foam inlays	8854-15-00.14K
Leather bag (art.), with see-through panel	8875-01-07.00
<b>HYDROcom</b> 6, program version Professional, 3 licenses	8874-19-01.01
<b>HYDROcom</b> 6, program version Full, 3 licenses	8874-19-01.02

## Calibration and Service

Calibration, single channels or as measuring chain with sensors (option)	3199-12-00.11
Service package Basic	3199-30-00.03
Service package Plus	3199-30-01.06
Service package Professional	3199-30-02.06