

MultiSystem 8050

Reliable Companions

This measuring system is incomparable: all measured values are displayed distinctively on the huge display, no matter whether numerically or as line diagram. This adds with the unique flexibility by the multiplicity of inputs and outputs.

Channels	32 (optional 40)
Analog sensors	10 (2x highspeed)
Frequency sensors	4
Measuring value memory	256 MB
Switching inputs/outputs	4/4
incl. trigger inputs/outputs	1/1
Analog outputs	2

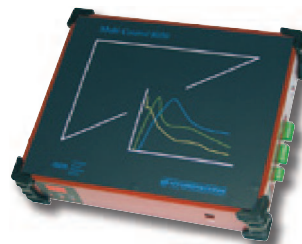


The measuring system can be integrated into existing environments easily due to the various connection possibilities and interfaces.



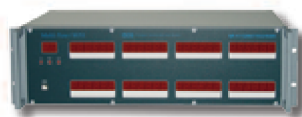
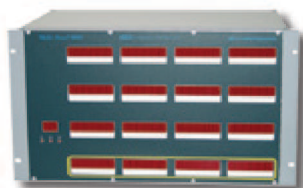
MultiControl 8050

If you have a PC available at any time, the version without display meets your requirements for a fully equipped measuring box with identical performance like the MultiSystem 8050. Connect the MultiControl via USB to your PC, operation is done in an easy and comfortable way using the software package **HYDROlink** delivered with the instrument.



MultiPanel 8050

You may purchase the sophisticated measuring electronics of the MultiSystem 8050 in a rack-mountable casing to setup test benches and measuring laboratories. Choose between 8 or 16 displays to keep the overview. Optionally displays can be left away completely. The PC connection with the software package **HYDROlink** is part of the delivery.





MultiSystem 8050

At a glance



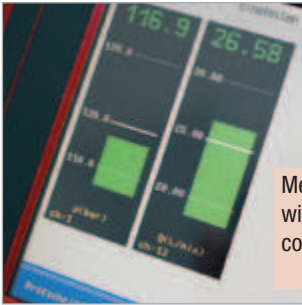
Up to 30 channels can be displayed simultaneously on the high-resolution TFT display.

Great variety



Ready for all duties with the total of 32 analog, frequency and digital inputs and outputs.

Predefined measuring programs



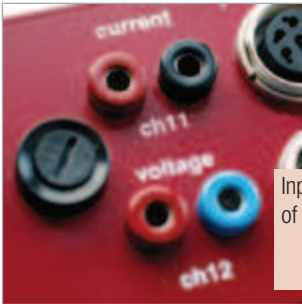
Measuring programs created with **HYDROgen** are processed comfortably.

Very open



A great number of interfaces and connection possibilities ease the integration into existing environments.

More possibilities



Input jacks for the direct measuring of current and voltage.

Measure pressure peaks



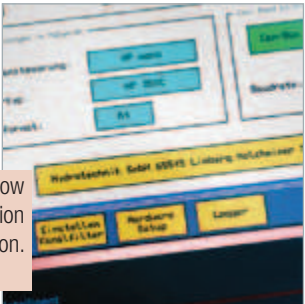
Two highspeed inputs to measure analog signals with a scan rate of 0.1 ms.

Always in the picture

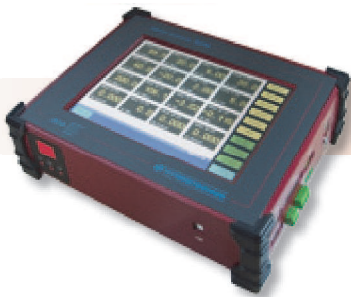


An additional indicator gives information on the status of the instrument.

Easy operation



The operation software requires low training to understand configuration and daily operation.



MultiSystem 8050

Technical data

Measuring channels

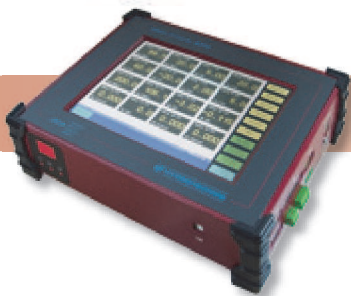
Analog channels, standard signals	10 (with Hydrotechnik ISDS)	
signals	0/4 ... 20mA, 0 ... 10V, $\pm 10V$	
A/D-converter	16 bit	
measuring rate	1 kHz (channels 1 ... 8), 10 kHz (channels 9 + 10)	
error limits	$\pm 0.1\%$ FS	
electrical connection	6-pole yesck, compatible to DIN 45 322, IEC 60130-9	
Analog channels current/voltage	1 x current measuring	1x voltage measuring
signal	± 2 ADC	± 48 VDC
A/D-converter	12 bit	
measuring rate	1 kHz	
error limit	< 1% FS	
Measuring channels, frequency	4 (with Hydrotechnik ISDS and direction detection)	
signals	0.05 Hz ... 20 kHz (w/o.d.d.), 0.05 Hz ... 5 kHz (w.d.d.)	
measuring rate	~10 ms	
error limit	$\pm 0.2\%$ of measured value	
electrical connection	6-pole yesck, compatible to DIN 45 322, IEC 60130-9	

Further channels

Digital input channels	4, 1 separated galvanically
signal	3.5 ... 30 VDC (High)
Digital output channels	4
signal	NPN transistor output, max. 30 VDC / 10 mA
Analog output channels	2
signal	0 ... 20 mA (channel 25); ± 20 mA (channel 26)
D/A-converter	12 bit
Special channels	6, optional 14 (for CAN or calculations)
CAN measuring rate	10 ms
CAN protocols	CANopen, SAE J1939, a.o.
Calculations	Difference, sum, 1. derivation, hydraulic power, free definable formulas

Measuring value memory

Type	CF-card 256 MB
Max. number of measuring series	200
Max. number of values per series	6 million
Recording rate	0.1 ms ... 999 min
Recording time	1 s ... 999 h
Number of triggers	2 (optional 6), linkable
Pretrigger	0 / 10 / 20 ... 100%



MultiSystem 8050

Technical data

Equipment and features

Display	10.4" color-TFT, VGA (MultiSystem 8050)
Interfaces	USB 1.1 / FS device, RS232, Centronics, CAN, LVDS
Power supply	Power pack (24 VDC / 2 A)
Sensor power supply	18 V / 100 mA
Casing	Steel sheets with impact protections
Dimensions (L x W x H)	~ 310 x 254 x 60 mm
Weight	~ 3.1 kg (MultiSystem 8050)
Protection type	IP 40
Operation temperature	0 ... 40 °C (MultiSystem 8050), 0 ... 60 °C (MultiControl 8050)
Storage temperature / relative humidity	-20 ... +60 °C / 0 ... 80% r.H. (not condensing)

Range of delivery • Accessories

Instruments

	Power pack with adaptors	USB cable 2,0 m	Data CD	
MultiSystem 8050	•	•	•	3160-00-65.00
MultiControl 8050	•	•	•	3160-00-66.00
MultiPanel 8050 (without displays)	•	•	•	3160
MultiPanel 8050 (8 displays)	•	•	•	3165-11-01.00
MultiPanel 8050 (16 displays)	•	•	•	3165-11-02.00

Versions with 14 CAN channels on request

PC software

Task	Recom. software	Delivered	Order number
Firmware update	HYDROboot	yes	8874-00-06.01
Instrument remote configuration	HYDROlink	yes	8874-00-07.01
Instrument remote operation			
Execute online measurements	HYDROcom	yes ¹	8874-13-01.02
Download measurement data			
Evaluate and present measurement data			
Program measurement procedures	HYDROgen	no	8874-01-01.55
Execute measurement procedures	HYDROrun	yes ^{2,3}	8874-01-01.55

- 1: 3 licenses **HYDROcom** Full
- 2: only to execute procedures in the instrument; PC software not contained
- 3: a license code is required to load new procedures into the instrument

Accessories

Table-top power pack	110 ... 240 VAC, 47 ... 63 Hz – 24 VDC / 53 W	8812-00-00.27
Car power supply	12 VDC – 24 VDC; cable length 5.0 m	8824-79-05.00
Connection cables	Linkage of two MS/MC 8050	8824-F2-00.50
	PC connection for firmware update	8824-F8-01.50
Protection bag	Nylon, black, front transparent film	8875-01-06.00
Transportation box	Aluminium, red	3160-00-65.03
Calibration	all electrical input channels	3199-30-01.08
Service package	Basic	3199-30-00.04
	Plus	3199-30-01.08
	Professional	3199-30-02.08

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