

# MultiSystem 5070 extended channel measuring & datalogging unit

## 5070-MX

- Accepts up to 24 standard external sensors
- Selectable mA, frequency & RTD or thermocouple extension options
- Connections for additional external CANbus or J1939 system data
- View and log all connected sensors simultaneously
- Powered by mains, 12/24V auxiliary vehicle supply or rechargeable battery
- All housed in a rugged ABS IP67 carry case



The ideal portable field service or R&D tool for multi-channel data monitoring of hydraulic & process systems. View up to 42 channels & record up to 24 channels simultaneously of external sensor data, formulae or CANbus data.

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**[HYDROTECHNIK.CO.UK/5070MX](https://www.hydrotechnik.co.uk/5070MX)**

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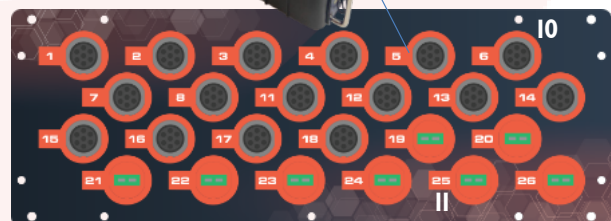
# 5070-MX Multi-channel datalogger

The 5070-MX test units comprise of the MultiSystem 5070 portable hand held datalogger and any combination of the MultiXtend series of channel extension modules. These are housed within a rugged, weatherproof portable carry case enclosure with external fascia plates housing all external sensor cable, power and communication connections. The 5070-MX can be configured with extra analogue (mA or V), frequency (pnp pulse) and RTD / thermocouple (PT100, type K, J) four channel extension modules as required. The 5070-MX can be powered by AC Mains, 12Vdc or by the internal rechargeable battery, all included as standard.



View up to 42 channels of data as graph, alphanumeric or display tiles with easy viewing page by page.

## 5070-MX Connection Overview



- 1) Power charging switch
- 2) 3 Amp Fuse
- 3) Digital Trigger Input / Output Channels 9 & 10
- 4) CANbus#2 connection
- 5) Charging status LED indicator
- 6) Mains or 12/24V charging plug\*
- 7) 0...100% battery life indicator (of 5070-MX battery)
- 8) USB-A connector
- 9) USB-B connector
- 10) 6 pin M16x0.75 female cable connections
- 11) Type K thermocouple mini jack connections

Channels 1 to 6	ISDS 0...20mA, 4...20mA, 0...10V, ±10V, 0.5...4.5V, 1...5V or 2...10V selectable
Channels 7 to 8	As channels 1 to 6 with additional ISDS PnP frequency signal options
Channels 9 to 10	Digital I/O trigger switch channels (on opposite side)
Channels 11 to 26	0 or 4...20mA, 0 to 10V, PnP frequency, RTD or thermocouple channels (configurable in groups of 4)

\*Mains charger supplied with additional 12V auxiliary charging adaptor (24V adaptor available on request)

If selecting full 26 channel connection unit, additional channels 27 to 42 remain free in the 5070 for configurable calculations, formulae, additional CANbus sensor or J1939 CAN machine data.

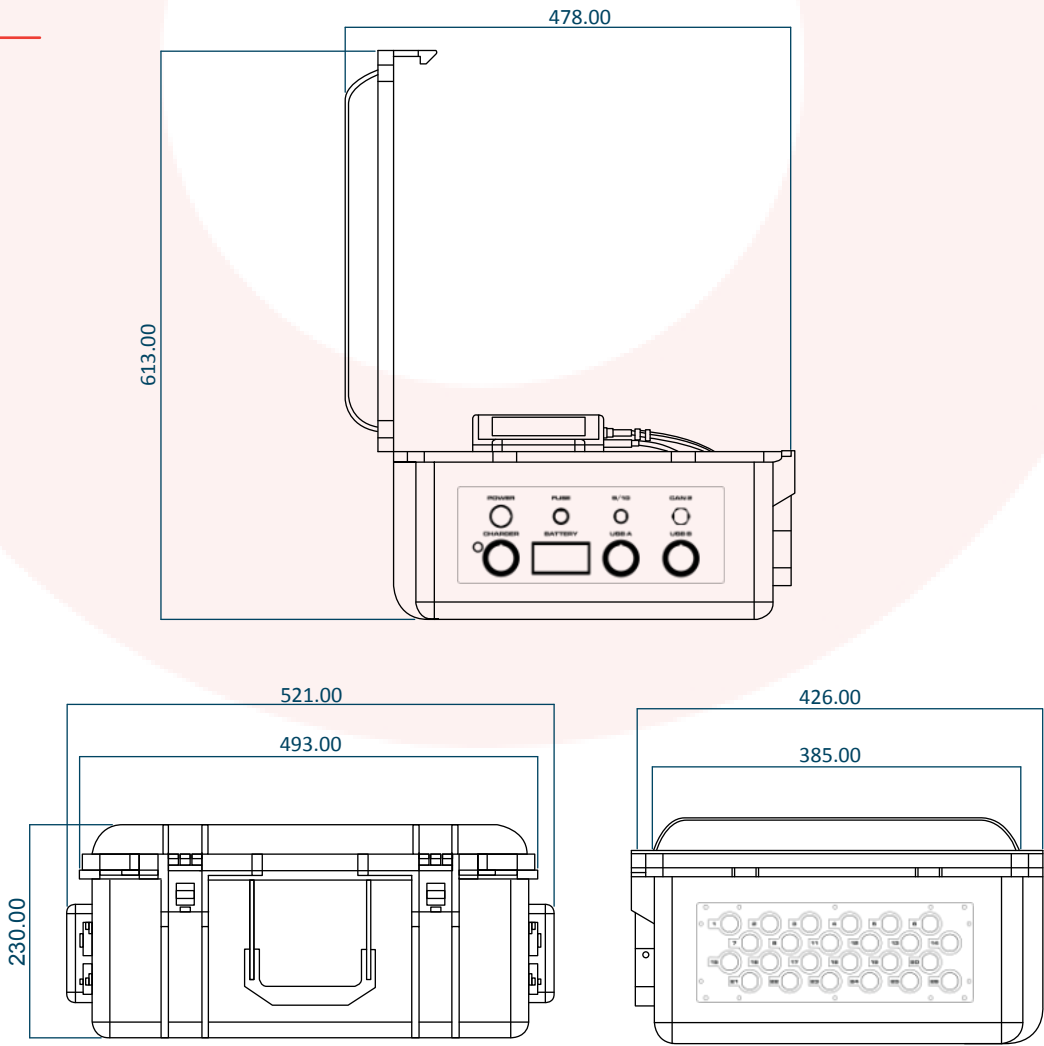
# 5070-MX Multi-channel datalogger

## Technical Specifications

SPECIFICATION	DETAIL
Dimensions	(w)521 mm x (d)426 mm x (h)230 mm
Weight	12 to 14 kg depending on amount of extra channels included
3 modes of operation	240Vac Mains power 12/24Vdc Auxiliary power Rechargeable Lithium Ion battery (10.4Ah)
Charge time	2 hours (80%) 5 hours (100%)
Run time	8 hours
Duty cycle	Continuous
Materials	Polypropylene carry case, Aluminium side panels (stainless steel on request)
Protection	IP67 (when closed)

For full technical specifications of the MultiSystem 5070 instrument & MultiXtend CAN modules, please refer to separate data sheets.

## Drawing





# 5070-MX Multi-channel datalogger

## Order codes

5070-MX- **X** - **Y** - **Y** - **Y** - **Y**

Replace **X** with below codes for extra channel connections required

**12** = 4 extra channel connections  
**16** = 8 extra channel connections  
**20** = 12 extra channel connections  
**24** = 16 extra channel connections

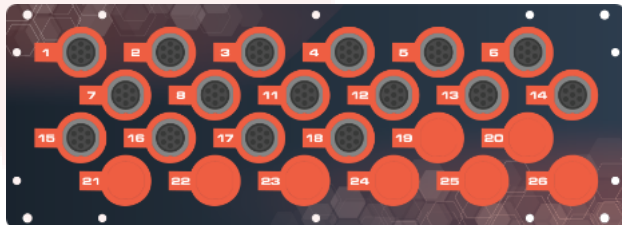
Channels 1...8 from 5070 instrument included

Replace **Y** with below codes for extra channel connections required

**4A** = 4 extra 0-20mA channels  
**4V** = 4 extra 0-10V channels  
**4f** = 4 extra PNP frequency channels  
**4k** = 4 extra Type K thermocouple channels  
**4J** = 4 extra Type J thermocouple channels  
**4Pt** = 4 extra Pt100 RTD channels

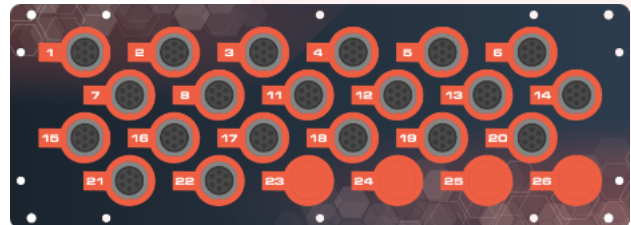
Type N, T, Pt500 & Pt1000 options available on request.

## Ordering examples



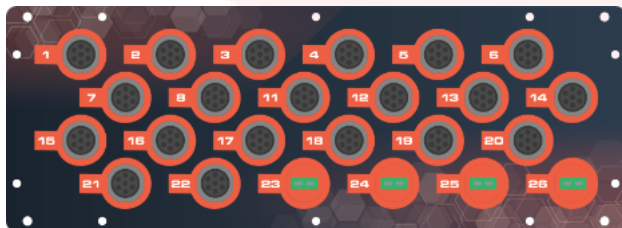
### 5070-MX-16-4A-4A

**5070-MX with 16 channel connections:-**  
 standard 8 channels of MultiSystem 5070 plus 8 extra channels comprising of 8 extra 0/4-20mA inputs



### 5070-MX-20-4A-4V-4f

**5070-MX with 20 channel connections:-**  
 standard 8 channels of MultiSystem 5070 plus 12 extra channels comprising of 4 extra 0/4-20mA inputs, 4 extra 0-10V inputs and 4 extra PNP frequency inputs.



### 5070-MX-24-4A-4A-4f-4K

**5070-MX with 24 channel connections:-**  
 standard 8 channels of MultiSystem 5070 plus 16 extra channels comprising of 8 extra 0/4-20mA inputs, 4 extra PNP frequency inputs and 4 extra type K thermocouple inputs.



### 5070-MX-24-4A-4A-4K-4K

**5070-MX with 24 channel connections:-**  
 standard 8 channels of MultiSystem 5070 plus 16 extra channels comprising of 8 extra 0/4-20mA inputs and 8 extra type K thermocouple inputs.