HYDROTECHNIK
UK LIMITED

Est. 1990

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 field service or R&D tool for multi-channel data monitoring of hydraulic or process systems. Measure and log up to 24 channels of external sensor data and up to 40 channels of external sensor & CANbus data.

Plant engineering
Industrial machinery
Agricultural machinery
Hydraulics
Automotive

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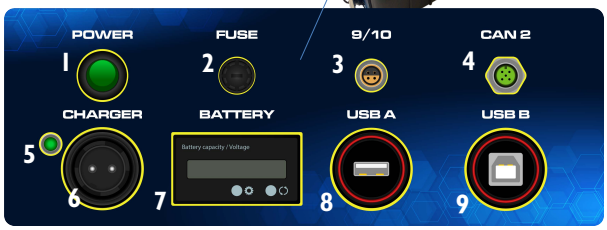
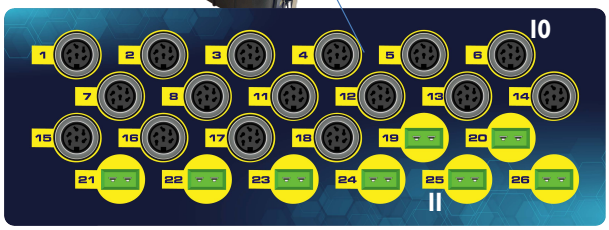
5070-MX Multi-channel datalogger

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 (4-20mA), frequency (pnp pulse) and thermocouple (type K) four channel extension modules as required. The 5070-MX can be powered by AC Mains, 12/24Vdc or rechargeable battery supply, 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 M16 male cable connections
11) Type K thermocouple mini jack connections

Channels 1 to 6	**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 pnp frequency pulse and totalising 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, frequency, RTD or thermocouple channels (configurable in groups of 4)**

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.

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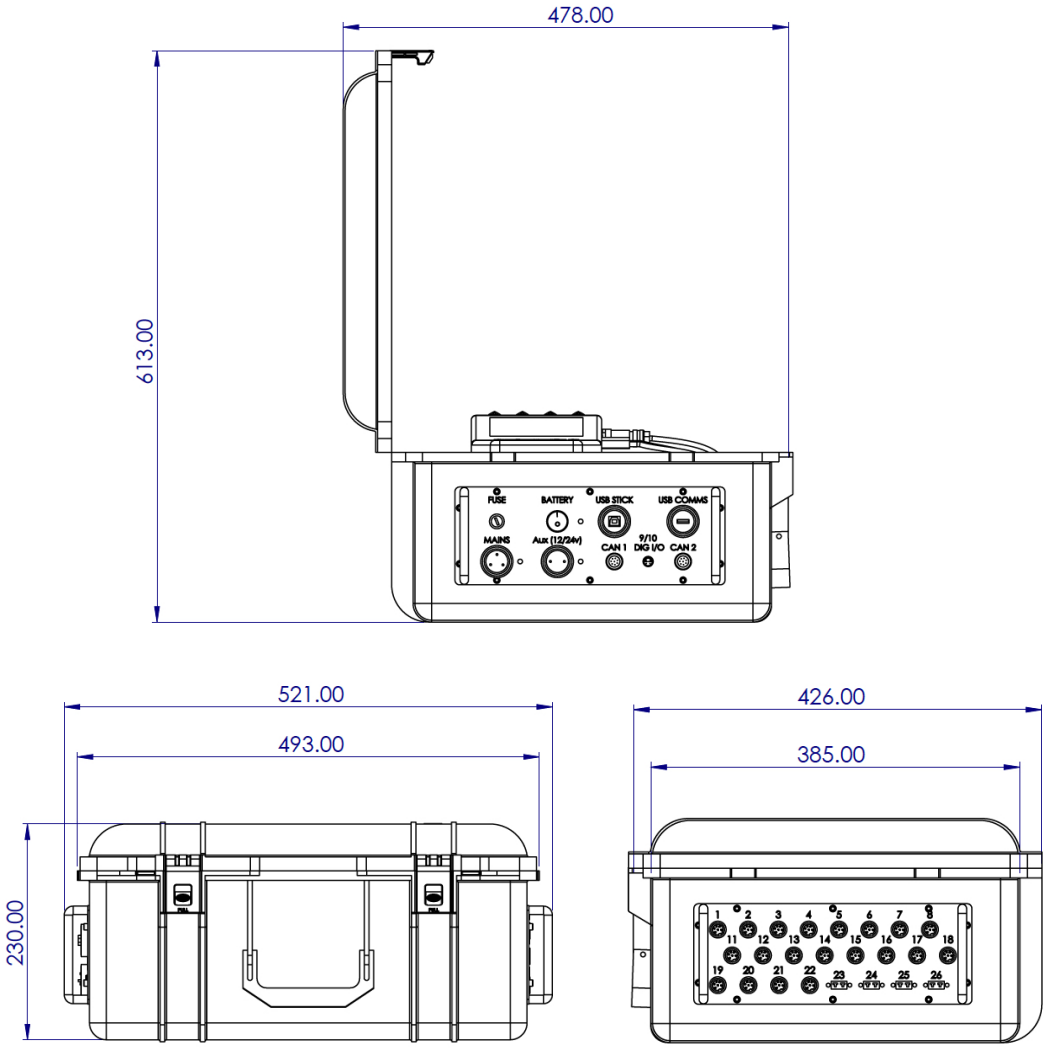
5070-MX Multi-channel datalogger

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 (5.2Ah)
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



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5070-MX Multi-channel datalogger

Order codes

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

Replace X with below code 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

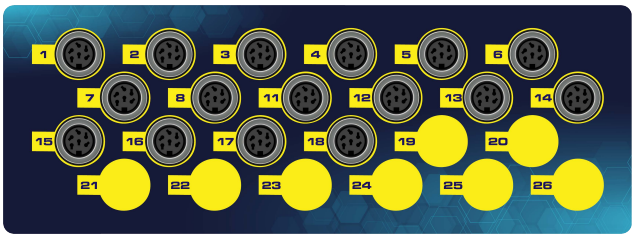
Channels 1...8 from 5070 instrument included

Replace Y with below codes for extra channel connections required

- **4A** = 4 extra 0-20mA or 4-20mA 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.

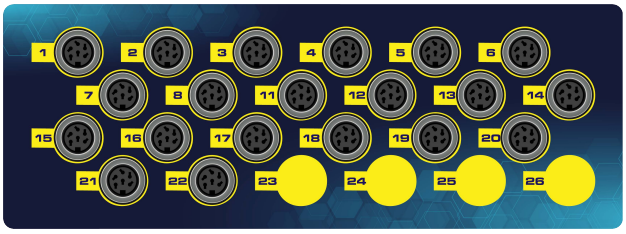
Ordering examples



5070-MX-16-4A-4A

5070-MX with 16 channel connections:-

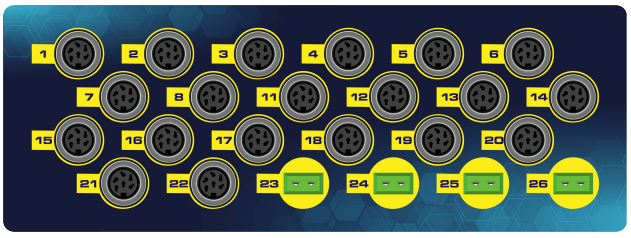
standard 8 channels of MultiSystem 5070 plus 8 extra channels comprising of 8 extra 0/4-20mA inputs



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

5070-MX with 20 channel connections:-

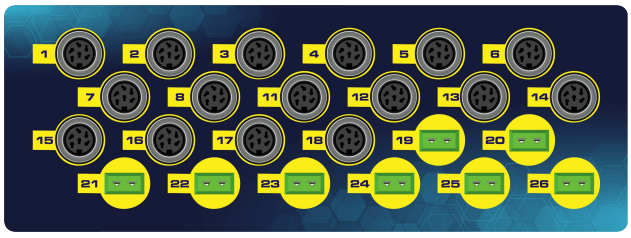
standard 8 channels of MultiSystem 5070 plus 12 extra channels comprising of 4 extra 0/4-20mA inputs, 4 extra 0-10V inputs and 4 extra PNP frequency inputs.



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.

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