

## Multiplexer Systems - Remote Mux

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## Overview



The Geosense® Remote Mux allows multiple sensor cables to be connected into one central location with subsequent connection to a data logger via one multi-core cable. The cost of cabling and installation is therefore significantly reduced.

It comprises of a series of multiplexers each of which has five sets of five input channels which typically allows 5 vibrating wire instruments together with their respective thermistors and ground conductors to be connected. Other types of analogue sensors can also be configured.

The amount of multiplexers required will depend on the number of sensors within each location.

### APPLICATIONS

Joining multiple sensors to a single multi-core cable and connection to data logger

Providing central location for manual readings and troubleshooting

### FEATURES

Unlimited connections to data logger using cascading method

Detachable screw terminals

Simple wiring process

Built-in transient protection

Robust steel box

Waterproof to IP67 rated

Up to 100 sensors can be connected



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## Specifications

MODEL	RM-1	RM-2	RM-3	RM-4	RM-5	RM-6	RM-7	RM-8	RM-9	RM-10
Number of multiplexers	1	2	3	4	5	6	7	8	9	10
Channel inputs 4 pole	5	10	15	20	25	30	35	40	45	50
Channel outputs 2 pole*	10	20	30	40	50	60	70	80	90	100
Number of cable entries (M16)	7	12	17	22	27	32	37	42	47	52
Enclosure width (mm)	300	300	300	400	400	500	500	600	600	600
Enclosure height (mm)	300	300	300	400	400	500	500	600	600	600
Enclosure depth (mm)	150	150	150	150	150	150	150	150	150	150

### MULTIPLEXER

Power	12 VDC
Current drain	10 $\mu$ quiescent, 8 mA active
Reset active levels, maximum	2.0V
Clock active levels, maximum	2.0V
Minimum clock pulse width	1 ms
Maximum actuation relay time	20 ms
Relay operation	Break before make
Initial relay resistance, maximum	0.1 Ohm
Maximum switching current	1 A

\* Standard construction is for 4 pole with M16 glands and typically for vibrating wire as follows:

1 - V+ (vibrating wire)

2 - V- (vibrating wire)

3 - T+ (temperature)

4 - T- (temperature)

5 - S (shield)

For multi-core cables where M20 glands are required, please advise number of sensors.



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