

# Signal Conditioning



## Key Features

- Wide range of inputs inc. Thermocouple, RTD, 4-20mA & Voltage
- Full 3-port isolation
- Configurable input type & range
- Non-interactive zero & span controls
- AC & DC power supply versions available



IMO's Signal Conditioners accept a wide range of inputs including 4-20mA, thermocouple, frequency, RTD temperature sensor and voltage signals, which they convert into a high level isolated DC output, or relay switching.

These units provide full 3-port isolation as standard and incorporate an isolated transmitter supply that can be used to power any standard two-wire 4-20mA transmitter loop. The user, via simple DIP switches located on or inside the unit, can configure input and output type and range. All RTD and thermocouple inputs can be fully linearised. The new signal converters are very easy to use, with non-interactive zero and span controls making adjustments quick and simple.

The single output Slimcon unit is only 7.2mm wide and the twin output DUALCON gives the user a signal splitting capability allowing, for example, simultaneous transmission of isolated 4-20mA to a PLC and 0-10V to an inverter.

There are two power supply options available: a wide ranging AC version allows the unit to operate from any supply from 90 to 264VAC, while the low voltage version operates from 12-32VAC and 12-36VDC. Please email [automation@imopc.com](mailto:automation@imopc.com) for any special input types.

## Signal Conditioning Selection

	SLIMCON	ISOCON		DUALCON		TRIP	STRAIN
	SLIMCON-6	ISOCON-3	ISOCON-6	DUALCON-3	DUALCON-6	**	**
Supply Voltage	24VDC	240VAC	24VDC	240VAC	24VDC	24VDC	24VDC
Isolation	1000V	1000V		1000V		1000V	1000V
Width (mm)	7.2	12.5		17.5		30	12.5
Outputs	1	1		2		up to 2	-

Input	SLIMCON	ISOCON	DUALCON	TRIP	STRAIN
	SLIMCON-6	ISOCON-3	ISOCON-6	DUALCON-3	DUALCON-6
0-10mA & 0-10V	Yes	Yes	Yes	-	-
0-20mA & 1-5V	Yes	Yes	Yes	-	-
4-20mA & 2-10V	Yes	Yes	Yes	Yes	-
+/-5A & +/-5V	-	Yes	Yes	-	-
+/-10A & +/-10V	-	Yes	Yes	-	-
TC	-	Yes	Yes	Yes	-
RTD	-	Yes	Yes	Yes	-
2W Pot	-	Yes	Yes	-	-
3W Pot	-	Yes	Yes	-	-
Bridge	-	-	-	-	mV/V*

Output	SLIMCON	ISOCON	DUALCON	TRIP	STRAIN
	SLIMCON-6	ISOCON-3	ISOCON-6	DUALCON-3	DUALCON-6
0-10mA	Yes	Yes	Yes	-	Yes
0-20mA	Yes	Yes	Yes	-	Yes
4-20mA	Yes	Yes	Yes	Yes	Yes
0-10V	Yes	Yes	Yes	-	Yes
0-5V	Yes	Yes	Yes	-	Yes
2-10V	-	Yes	Yes	-	Yes
1 Relay	-	-	-	Yes	-
2 Relay	-	-	-	Yes	-
Excitation	-	-	-	-	10VDC

\* Bridge excitation voltage of 10VDC supplied

\*\* Please refer to product datasheet found at [www.imopc.com](http://www.imopc.com)