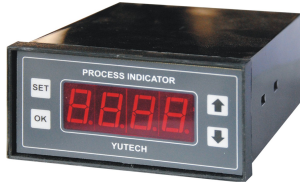




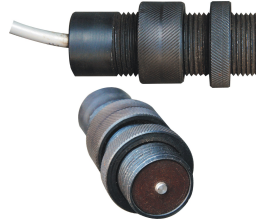
YUTECH

DATASHEETS: RPM TRANSMITTERS DOC NO: A-ISO-DS-RPM-2016-1005

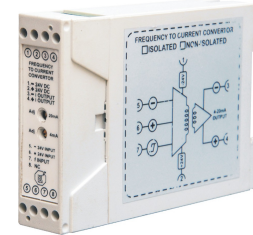
Isolating RPM Transmitter cum Indicator and RPM Sensor:



ISOLATING RPM INDICATOR CUM TRANSMITTER
Product Code: A-ISO-DC-F-C1-LD-PM



RPM SENSOR
Product Code: ASD-RPMS-1005-MS



Isolating RPM Transmitter
Product Code:
A- ISO-DC-F-C1-S

Inductive RPM Sensors Accurately sense Pulses made by Tooth Wheel fitted on the Shaft whose RPM is to be measured. This essentially is a varying Frequency Signal which is then given either Isolating RPM Transmitter or RPM Indicator Transmitter. The signal is converted to standard 4-20mA and then transmitted to the Controller. Local Display can be seen on the Indicator.

Datasheet:

Common General Specifications:

Enclosure

Shape	: Rectangular
Material	: ABS
Dimensions (mm)	: Length: 107.5, Height: 75mm; Width: Varies as per Model and is specified in product coding information or 96 x 48 x 110mm Din Standard Panel Mounted.
Mounting	: Din Rail Mounted / Panel Mounted
Ingress Protection	: IP 40, Shock and Contamination Proof.
Flammability	: Class V0 according to UL 94.

Specifications which vary with Series:

		Transmitter	Indicator Transmitter
Ambient Temperature	-20°C to 55°C	Yes	Yes
Power Supply			Yes
Power Consumption	: For all Isolation Products is less than	1W	4.2W
Power Supply Voltage can be chosen as either AC Mains or DC	: 16 to 36 VDC. Recommended 24 VDC 85 to 265 V AC 50 – 60 Hz	Yes Yes	Yes Yes
Power Supply Side Isolation	: 3 Point Isolation. Rail Power Supply of 24 VDC is internally isolated from Input and Output Circuitry.	Yes	Yes
Protection	Reverse Voltage Protection.	Yes	Yes
Signal Isolation			
Isolation Barrier Voltage	: VDC	3500	3500
Isolation Type	: Isolation Technology used	Optical	Optical
Input and Output			
Input Signal	: Frequency: 0 – 100 KHz	Yes	Yes
Input and Output Side Protection	: Reverse Loop Protection EMI Filtering and Protection RFI Filtering	Yes Yes Yes	Yes Yes Yes
Output Signal	: DC Current: 4 to 20 mA DC Voltage: 0 to 10 VDC	Yes Option Selectable	Yes NA
Maximum Load Permissible for Current Output	: Value at 24 VDC Power Supply.	650 Ohm	650 Ohm
Maximum Non-linearity	: Value with respect to Full Scale Range at maximum ambient temperature.	± 0.1%	± 0.1%
Output Calibration	: Linearity trim set on fascia – Slope Adjust.	Yes	Yes
Display	: 4 Digit LED	NA	Yes

RPM Sensor

Type	: Inductive
Excitation Voltage	: 24 VDC
Enclosure	: Diameter: 33mm, Length: 100mm, Threading: 1" BSP, 10mm Wide Hex Collars for Mounting, Epoxy Sealed, Dust, Moisture and Ingress Proof. Material: Blackodized MS / SS 304.

YU Technologies Pvt. Ltd.

Registered Office: 315, A-1, 22, Manishanagar, Off Sahyadrinagar, Sangli-416 416, Maharashtra, India.

Works: B 8/5, Opp. MSEB Substation, MIDC, Miraj - 416 410, Dt. Sangli, Maharashtra, India.

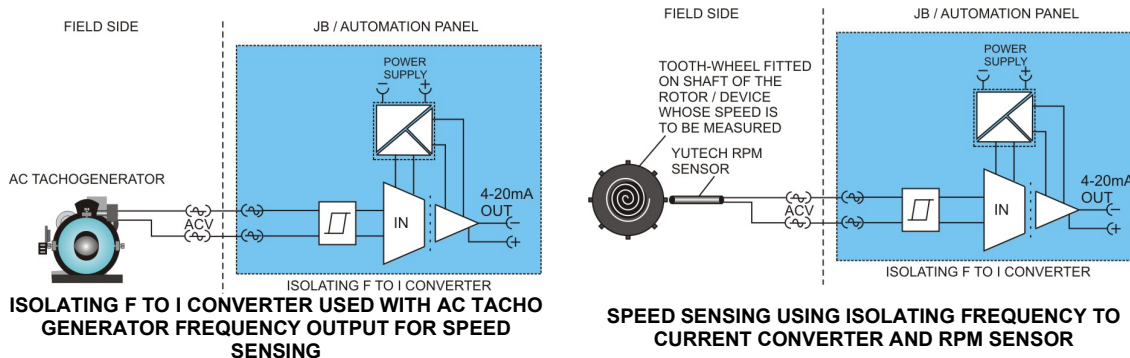
T: + 91 233 6451802; F: +91 233 2644042; E: info@yutech.in, sale@yutech.in, W: www.yutech.in

Speed Sensing using Frequency to Current Converter: Frequency Converter converts Frequency Signals or Signal Frequencies to standard 4-20mA Current. Frequency Input of 0 – 100 KHz is Factory default setting At 5 VAC Peak to Peak is Standard Range. Other ranges may be specified while ordering.

Speed Sensing using RPM Sensor and Frequency to Current Converter: YUTECH RPM Sensor coupled with Frequency to Current F to I Converter forms an accurate Speed Sensing Device. Tooth-wheel can be ordered by giving the Shaft Size and RPM or can be locally made / purchased by the end user as per our drawings. Sensor is powered by Auxilliary Power Supply of 5 VDC from the Converter which converts this Pulse Frequency Input created by the rotation of Tooth-Wheel into Standard 4-20mA Current which can be used for Control Application.

Speed Sensing using AC Tacho-Generator and Frequency to Current Converter: Converter can be directly connected to any AC Tacho-Generator (TG). The Frequency of the Output varies with respect to Speed of the TG. The Frequency to Current Converter converts Pulse Frequency Input into Standard 4-20mA Current which can be used for Control Application. Please mention the Maximum Voltage during ordering.

YUTECH Isolating Indicator Display is used for Local Speed Indication and Transmission in below applications:



Ordering Information

Product Code (PC)

- A-ISO-DC-F-C1-S
- A-ISO-DC-F-V1-S
- A-ISO-DC-F-C1-LD-PM
- A-ISO-AC-F-C1-LD-PM
- ASD-RPMS-1005-SS
- ASD-RPMS-1005-MS

Product Description

- : Isolating AC Signal Converter – Frequency to Current (4 – 20 mA).
- : Isolating AC Signal Converter – Frequency to Voltage (0-10VDC).
- : Isolating Indicator Display cum Transmitter - Frequency to Current (4 – 20 mA)
- : Isolating Indicator Display cum Transmitter - Frequency to Current (4 – 20 mA), 230VAC PS.
- : RPM Sensor - SS Enclosure
- : RPM Sensor - Blackodized MS Enclosure

Product Coding (PC) Information:

Item Description	Item Code	Item Specification
Product Description	A-ISO	A-Series Isolator
Power Supply	DC	Power Supply Voltage 24 VDC.
Output	C	Output DC 4 to 20mA.
	V	Output 0 to 10 VDC.
	B	Bipolar Voltage Output -10 to 10 VDC.
	AM	Bipolar AC milli-Volt (-1000mV to 1000 mV) (Standard Range. Other maybe specified while ordering).
Input	AV	0 to 100 VAC (Standard Range. Other maybe specified while ordering).
	F	Frequency: 0 – 100 KHz (At 5 VAC Peak to Peak, Standard Range. Voltage upto 100 VAC maybe specified while ordering).
	U	Universal (For Display Unit only), supports Current, milli-Volt, RTD, TC Inputs
Display	LD	LED Display
Sensor	RPMS	RPM or Speed Sensor
Channels	1	Single Channel
	2	Two Channels (Enclosure may be Medium size for additional input or output channels)
	S	Standard 22.5mm Width.
Enclosure	M	Medium 45mm Width.
	PM	Panel Mounted Din Std 96 x 48 x 110mm.

Decoding the Product Code

