

4 – 20 CURRENT ISOLATOR SINGLE/DUAL 4 – 20 mA ISOLATED OUTPUTS

Overview

4–20mA Current loop isolators perform the function of Isolation of the input 4–20mA signal and generate an output 4–20mA signal, which is faithful replication of the input signal. The devices may also be used as signal multipliers (Dual Output) to generate an additional isolated 4–20mA output, which can be connected to different measuring device. Fast response (<1mS) is ensured to enable quick system response in feedback control applications.



Technical Specifications

Input	Input	4 – 20mA DC.
	Input Resistance	100Ω
	Sourcing Voltage(+Vs)	24V _{DC} , 25mA (max.)
Output	Output 1	4 – 20 mA DC,
	Load Resistance	750Ω (max.)
	Output 2 (Optional)	4 – 20 mA DC,
Performance	Load Resistance	750Ω (max.)
	Accuracy	±0.2% of Span
	Linearity	±0.1% of Span
	Temperature Stability	0.05% / °C
	Calibration	SPAN Adj. (Trimpot)
	Response Time	< 1mSec

General Specifications

Isolation	2KV – 3 Port.
Power Supply Voltage	90 – 270V _{AC} , 50/60Hz 100 – 250V _{DC}
Power Consumption	10VA approx.
Protection	Fuse: 1A (In-Built) Slow Blow type
Enclosure ABS Plastic, 35 mm DIN Rail Mounted.	Size: W – 55 mm H – 75mm D – 110mm
Operating temp. range	0 – 55°C
Storage temp. range	0 – 80°C
Relative Humidity	5 – 95% RH Non-Condensing
Max. Altitude	3000 mts above MSL

Features

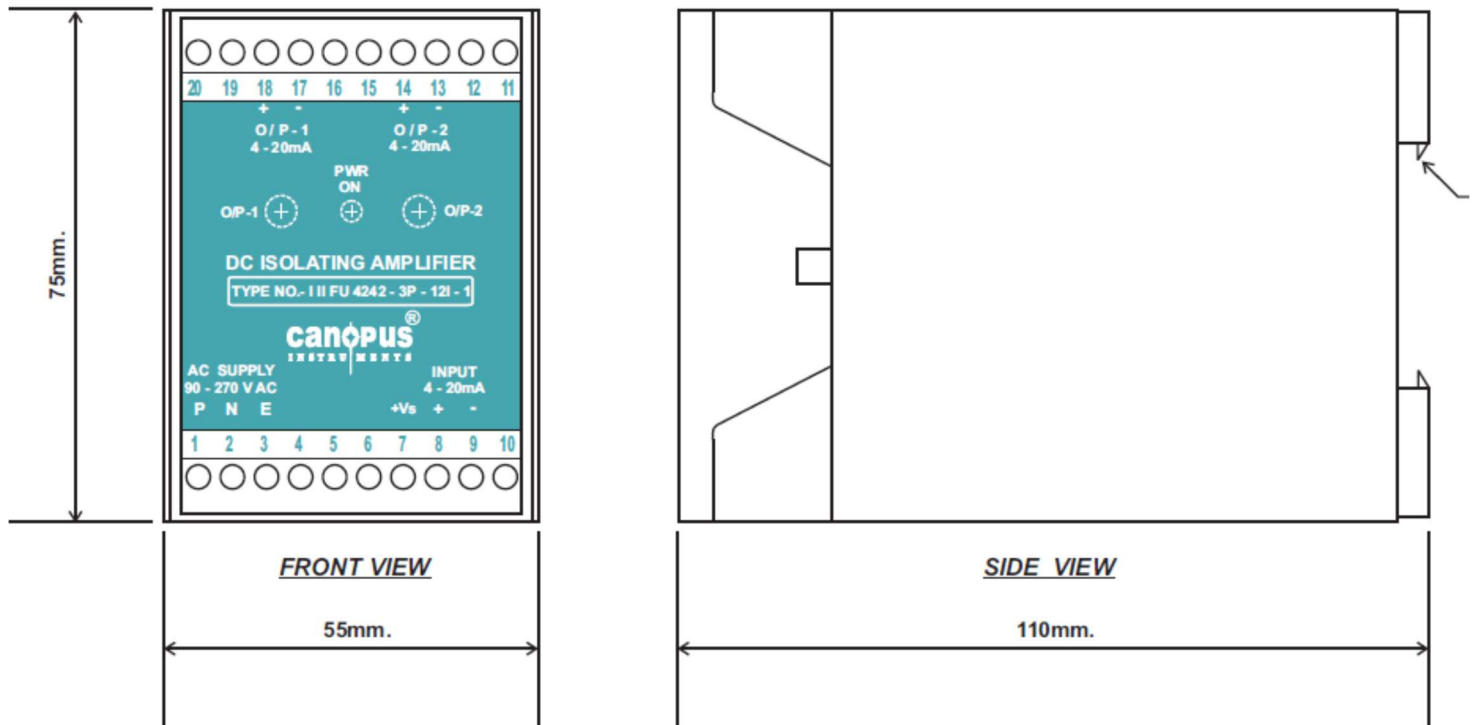
- ✓ Enhanced EMI Rejection capability to ensure Reliable operation in adverse Industrial environments.
- ✓ Low Noise & Low drift for long term stability.
- ✓ Response Time < 1 mSec.
- ✓ 2-wire transmitter interface
- ✓ Single point calibration.
- ✓ Reduced heat loss due to improved Power Supply efficiency.
- ✓ Cost effective.

Related Products

- ✓ 4-20mA Signal Isolator, 24V DC supply, 1/2/3 /4 Isolated Outputs.
- ✓ 4-20mA Signal Isolator, Isolation Level 5KV.
- ✓ 0-10V Input/4-20mA Output Isolator.

APPLICATIONS

- AC/DC Drive systems
- PLC Systems
- Data Acquisition Systems
- 2 Wire 4-20mA Transmitter interface



PIN	Details	PIN	Details
1	Phase	11	NC
2	Neutral	12	NC
3	Earth	13	-Output2(4-20mA) *
4	NC	14	+Output2(4-20mA) *
5	NC	15	NC
6	NC	16	NC
7	+Vs	17	- Output1(4-20mA)
8	+ Input (4-20mA)	18	+ Output1(4-20mA)
9	- Input (4-20mA)	19	NC
10	NC	20	NC

Model Numbers	
Single Output (4-20mA)	I II FU 4242 – 3P – 1
Dual Output (4-20mA)	I II FU 4242 – 3P – 12I – 1

Note: Output 2 present in Dual output Type Units.

About Us

CANOPUS INSTRUMENTS is engaged in the development & manufacturing of industrial automation and process control instrumentation products. The product areas cover mainly Analog Signal Conditioning Instruments for Process Automation, Embedded Systems & Ultrasonic Equipment for Non-Destructive Testing Applications.

All the CANOPUS range of products are designed and manufactured with special care, to ensure trouble free performance in Industrial applications where Electromagnetic Interference (EMI) & Harsh environmental conditions exist.

Today these products come to our customers with the quality assurance and tech-support in H/W & S/W, which has evolved with our experience of over 27 years, to ensure uninterrupted operation in field conditions. This has enabled us to successfully create an installed base of tens of thousands of units performing satisfactorily in a wide spectrum of Critical Real time Industrial applications all over India and in other parts of the world.

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