

# SIGNAL ISOLATORS

## ISOLATING CURRENT TRANSMITTER / REPEATER / ISOLATION BARRIER

PLEASE DOWNLOAD THE PRODUCT DATASHEETS FROM OUR WEBSITE FOR DETAILED TECHNICAL SPECIFICATIONS AND APPLICATION NOTES. W: [www.yutechautomation.com](http://www.yutechautomation.com); E: [sale@yutech.in](mailto:sale@yutech.in)



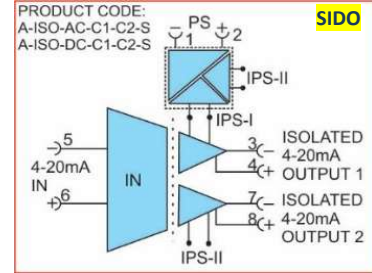
THRESHOLD VOLTAGE OF THE ISOLATION BARRIER: 5KV RMS FOR ALL ISOLATION PRODUCTS  
POWER SUPPLY: AC: 24VDC OR 85VAC TO 265VAC, 50Hz / 60Hz; DC: 16VDC TO 36 VDC, RECOMMENDED 24VDC

### SIGNAL ISOLATOR: DC CURRENT ISOLATOR SINGLE INPUT DUAL OUTPUT (SIDO)

PRODUCT CODE: A-ISO-AC-C1-C2-S, A-ISO-DC-C1-C2-S  
INPUT: 4-20mA, OUTPUT: TWO CHANNELS OF 4-20mA

#### APPLICATION:

PLC / DCS PANELS, VFD PANELS AS A SIGNAL SPLITTER TO READ THE SIGNAL OVER MORE THAN ONE DEVICE.

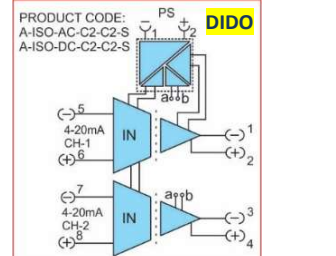


### SIGNAL ISOLATOR: DC CURRENT ISOLATOR DUAL INDEPENDENT INPUT AND OUTPUT (DIDO)

PRODUCT CODE: A-ISO-DC-C2-C2-S, A-ISO-XX-C2-C2-S  
INPUT: TWO CHANNELS OF INDEPENDENT 4-20mA INPUTS  
OUTPUT: TWO CHANNELS OF INDEPENDENT 4-20mA OUTPUTS ACROSS INDEPENDENT BARRIERS

#### APPLICATION:

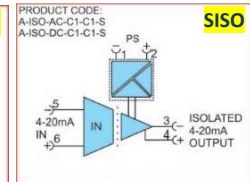
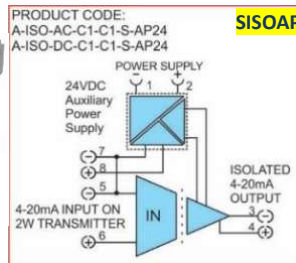
PLC / DCS PANELS, SAVE SPACE IN PANEL, USE ONE ISOLATOR FOR 2 SEPARATE CHANNELS.



### SIGNAL ISOLATOR: DC CURRENT ISOLATOR SINGLE INPUT SINGLE OUTPUT (SISO): A-ISO-AC-C1-C1-S, A-ISO-DC-C1-C1-S

SIGNAL ISOLATOR: DC CURRENT ISOLATOR SINGLE INPUT SINGLE OUTPUT WITH AUXILIARY POWER SUPPLY (SISOAP): A-ISO-AC-C1-C1-S-AP24, A-ISO-DC-C1-C1-S-AP24  
INPUT: 4-20mA, OUTPUT: 4-20mA

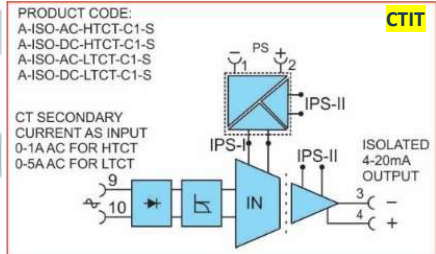
APPLICATION: USE IN REMOTE LOCATION, USING AVAILABLE LOCAL AC POWER, 24VDC AUX POWER SUPPLY POWERS ANY 2-WIRE TRANSMITTER. SAVING EXTRA WIRING AND REDUCED MAINTENANCE.



### SIGNAL ISOLATOR: CURRENT TRANSFORMER SIGNAL CONVERTER ISOLATING TRANSMITTER (CTIT)

PRODUCT CODE: A-ISO-AC-LTCT-C1-S, A-ISO-DC-LTCT-C1-S, A-ISO-AC-HTCT-C1-S, A-ISO-DC-HTCT-C1-S  
IN: 0-1A AC OR 0-5A AC FROM HT-CT OR LT-CT, OUT: ISOLATED 4-20mA.

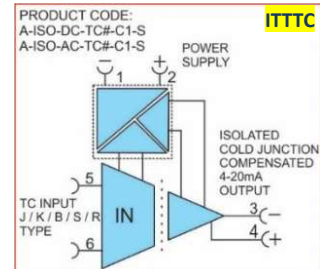
APPLICATION: AC CURRENT MEASUREMENT OF ANY MACHINE / EQUIPMENT. Ex: ANY MOTORIZED DRIVE, PUMP DRIVE, ID/FD FAN DRIVE ETC. AS A SAFETY DEVICE, CTIT ENABLES 4-20mA SIGNAL TO BE TRANSMITTED TO THE CONTROL PANEL WITHOUT DIRECTLY TAKING CT CURRENT TO THE PANEL AND ALSO AVOIDS A CT BURST IN CASE OF ACCIDENTAL OPEN CIRCUIT.



### SIGNAL ISOLATOR: ISOLATING TEMPERATURE TRANSMITTER WITH THERMOCOUPLE INPUT (ITTC)

PRODUCT CODE: A-ISO-AC-TC#-C1-S, A-ISO-DC-TC#-C1-S  
INPUT: THERMOCOUPLE K TYPE IS BY DEFAULT, J, R, T, AND S ON SPECIAL ORDER. OUTPUT: ISOLATED 4-20mA

APPLICATION: TEMPERATURE SENSING USING THERMO-COUPLE. CAN BE PLACED IN A FIELD JB AND AVOID USE OF EXPENSIVE COMPENSATION CABLES. AS COLD JUNCTION COMPENSATED TEMPERATURE IS TRANSMITTED AS 4-20mA.

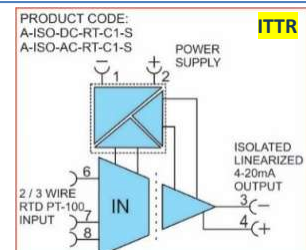


### SIGNAL ISOLATOR: ISOLATING TEMPERATURE TRANSMITTER WITH 3-WIRE RTD Pt100 INPUT (ITTR)

PRODUCT CODE: A-ISO-AC-RT-C1-S, A-ISO-DC-RT-C1-S  
INPUT: 3-WIRE RTD Pt-100; OUTPUT: 4-20mA

#### APPLICATION:

TEMPERATURE SENSING USING RTD Pt-100. CAN BE PLACED IN A FIELD JB AND AVOID USE OF 3-WIRE RTD CABLES AND SIGNAL LOSS OVER LONG DISTANCES, INSTEAD, TRANSMIT 4-20mA SAFELY TO THE CONTROL ROOM USING A SHIELDED PAIR.



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THRESHOLD VOLTAGE OF THE ISOLATION BARRIER: 5KV RMS FOR ALL ISOLATION PRODUCTS  
POWER SUPPLY: AC: 24VDC OR 85VAC TO 265VAC, 50Hz / 60Hz; DC: 16VDC TO 36 VDC, RECOMMENDED 24VDC

#### SIGNAL ISOLATOR: ISOLATING AC VOLTAGE TO CURRENT CONVERTER (AVI).

PRODUCT CODE: AC VOLTAGE TO CURRENT CONVERTER

TRANSMITTER: A-ISO-AC-AV-C1-S, A-ISO-DC-AV-C1-S

AC MILLIVOLT TO CURRENT CONVERTER TRANSMITTER:

A-ISO-DC-AMV-C1-S or A-ISO-AC-AMV-C1-S

AC HIGH VOLTAGE TO CURRENT CONVERTER TRANSMITTER:

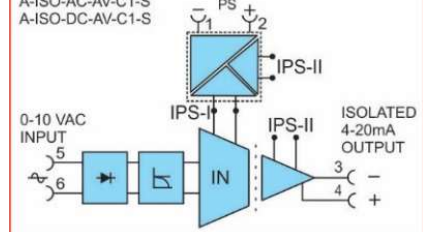
A-ISO-DC-AVH-C1-S or A-ISO-AC-AVH-C1-S

INPUT: 0-10VAC (AV), 0-1000mVAC (AMV), 0-100VAC (AVH)

OUTPUT: ISOLATED 4-20mA



PRODUCT CODE:  
A-ISO-AC-AV-C1-S  
A-ISO-DC-AV-C1-S



AVI

**APPLICATION:** MEASURE AND TRANSMIT ANY NON-STANDARD AC VOLTAGE USED FOR CONTROL APPLICATIONS AND CONNECT IT TO ANY PLC/DCS OR LOCAL CONTROLLER.

#### SIGNAL ISOLATOR: ISOLATING FREQUENCY TO CURRENT CONVERTER (FC)

PRODUCT CODE:

FREQUENCY TO CURRENT CONVERTER TRANSMITTER:

A-ISO-AC-F-C1-S, A-ISO-DC-F-C1-S

INPUT: 0-10KHz @ 1 – 10VAC

FREQUENCY TO CURRENT CONVERTER TRANSMITTER:

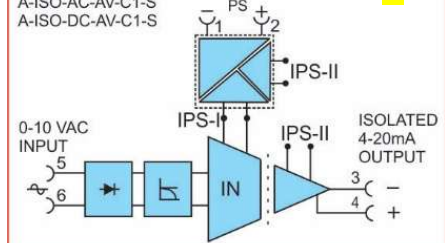
A-ISO-AC-FH-C1-S, A-ISO-DC-FH-C1-S

INPUT: 0-10KHz @ 20 – 100VAC (PLEASE SPECIFY FREQUENCY AND VOLTAGE FOR YOUR APPLICATION)

OUTPUT: ISOLATED 4-20mA.



PRODUCT CODE:  
A-ISO-AC-AV-C1-S  
A-ISO-DC-AV-C1-S



FC

**APPLICATION:** MEASURE AND TRANSMIT ANY STANDARD FREQUENCY OR ANY NON-STANDARD FREQUENCY LIKE A TACHO-GENERATOR USED FOR CONTROL APPLICATIONS AND CONNECT IT TO ANY PLC/DCS OR LOCAL CONTROLLER.

#### SIGNAL ISOLATOR: ISOLATING CURRENT TO VOLTAGE CONVERTER (IVC):

PRODUCT CODE: A-ISO-AC-C1-V1-S, A-ISO-DC-C1-V1-S

INPUT: 4-20mA, OUTPUT: ISOLATED 0-10VDC

SIGNAL ISOLATOR: ISOLATING VOLTAGE TO CURRENT CONVERTER (VIC)

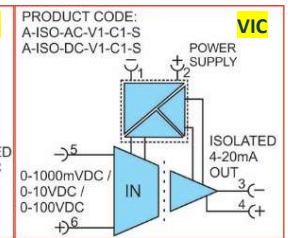
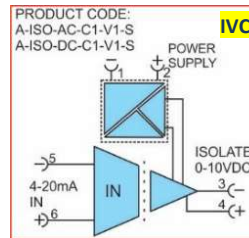
PRODUCT CODE: VOLTAGE TO CURRENT: A-ISO-AC-V1-C1-S, A-ISO-DC-V1-C1-S

MILLIVOLT TO CURRENT: A-ISO-AC-MV-C1-S, A-ISO-DC-MV-C1-S

HIGH VOLTAGE TO CURRENT: A-ISO-AC-VH-C1-S, A-ISO-DC-VH-C1-S

INPUT: V1: 0-10VDC / MV: 0-1000mV (0-2000mV ON REQUEST) / VH: 0-100VDC

OUTPUT: ISOLATED 4-20mA



IVC

VIC

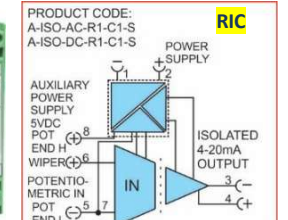
**APPLICATION:** VIC: CONVERT RANGE OF VOLTAGES TO STANDARD 4-20mA. IVC: CONVERT CURRENT TO STANDARD VOLTAGE.

#### SIGNAL ISOLATOR: ISOLATING RESISTANCE TO CURRENT CONVERTER (RIC)

PRODUCT CODE: A-ISO-AC-R1-C1-S, A-ISO-DC-R1-C1-S

INPUT: 0-1000 OHMS, OUTPUT: ISOLATED 4-20mA

**APPLICATION:** RIC IS A SOLUTION TO THE COMMON PROBLEM OF REMOTE MANUAL SPEED CONTROL. IT IS USED IN A VARIABLE FREQUENCY DRIVE (VFD), WHERE A REMOTELY LOCATED POTENTIOMETER IS USED TO VARY THE DRIVE SPEED. IT AVOIDS PROBLEMS ARISING FROM GROUND LOOPING FAULT, NOISE DUE TO EMI/RFI, AND ATTENUATION ARISING FROM LONG DISTANCE OF CABLE.



RIC

#### SIGNAL ISOLATOR: DC VOLTAGE ISOLATOR (VIVO)

PRODUCT CODE: A-ISO-AC-V1-V1-S, A-ISO-DC-V1-V1-S

VOLTAGE TO CURRENT: A-ISO-AC-V1-C1-S, A-ISO-DC-V1-C1-S

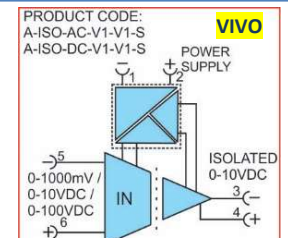
MILLIVOLT TO CURRENT: A-ISO-AC-MV-C1-S, A-ISO-DC-MV-C1-S

HIGH VOLTAGE TO CURRENT: A-ISO-AC-VH-C1-S, A-ISO-DC-VH-C1-S

INPUT: V1: 0-10VDC / MV: 0-1000mV (0-2000mV ON REQUEST) / VH: 0-100VDC

OUTPUT: 0-10VDC

**APPLICATION:** CONVERT ANY STANDARD OR NON-STANDARD VOLTAGE SIGNAL TO A STANDARD ISOLATED VOLTAGE SIGNAL OF 0-10VDC.



VIVO

PLEASE VISIT OUR WEBSITE [www.yutechautomation.com](http://www.yutechautomation.com).

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