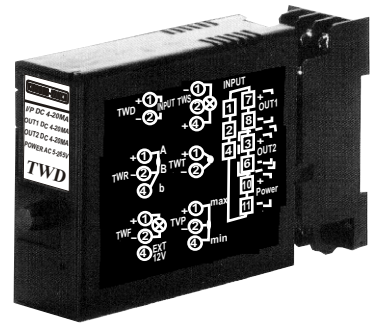


# KUSAM-MECO DC ISOLATING TRANSMITTER

## FEATURES

- Aux. Power AC 85 ~ 265V or DC 85 ~ 300V
- High Accuracy 0.1% RO at 23°C ± 5°C
- Input / Output User Selectable
- PC Plastic Case, DIN Rail or Wall Mounting
- High Dielectric Strength (AC 1.5KV/Min, between Input/Output/Power)



MODEL: TWD —  —  —  SINGLE OUTPUT

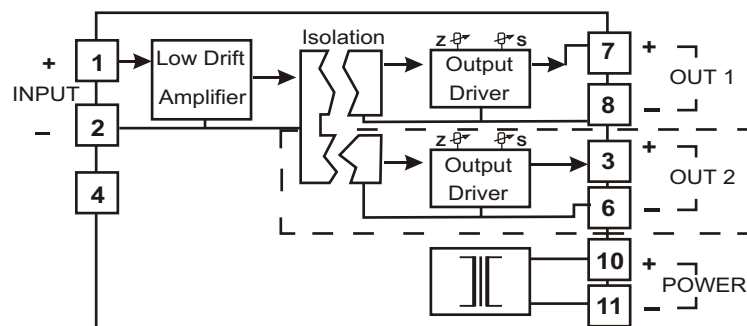
TWD2 —  —  —  —  DUAL OUTPUT

INPUT		OUTPUT 1		OUTPUT 2		AUX. POWER	
B	DC 0 ~ 20mA	B	DC 0 ~ 20mA	B	DC 0 ~ 20mA	C	DC 24V
C	DC 4 ~ 20mA	C	DC 4 ~ 20mA	C	DC 4 ~ 20mA	F	AC 85 ~ 265V
D	DC 0 ~ 5 V	D	DC 0 ~ 5 V	D	DC 0 ~ 5 V		DC 85 ~ 300V
E	DC 1 ~ 5 V	E	DC 1 ~ 5V	E	DC 1 ~ 5V		(AC & DC Share)
F	DC 0 ~ 10V	F	DC 0 ~ 10V	F	DC 0 ~ 10V		
Y	OTHER	Y	OTHER	Y	OTHER		

## SPECIFICATION

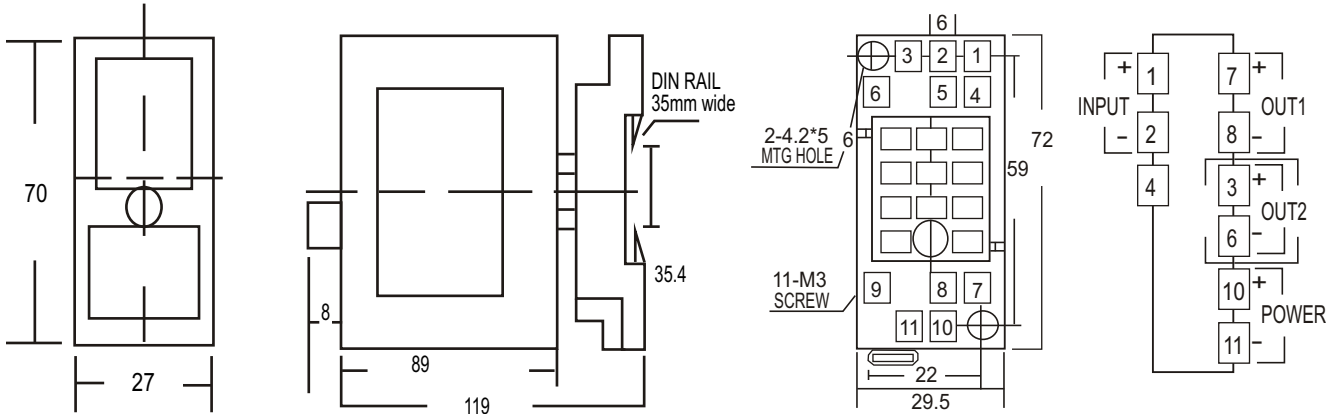
- Accuracy** : 0.1% RO at 23°C ± 5°C
- Input Impedance** : Voltage Input\_1M , Current Input\_ 50
- Insulation Resistance** : \_100M /DC 500V
- Output Load** : DC Current Mode : >750 in Output 20mA, DC Voltage Mode : 10mA Maximum
- Dielectric Strength** : AC 1500V/Min, between Input/Output/Power.
- Input Protection** : \_2V DC \_300V rms Continuous; \_2V DC \_150V rms Continuous; \_20mA DC \_150mA Continuous
- Linearity & Repeatability** : \_0.1% Typical.
- Common Mode Rejection** : \_120db DC to 60Hz
- Stability** : \_0.2% / Year.
- Response Time** : \_400 mS
- Ripple** : \_0.1% rms RO
- Temperature Coefficient** : \_100ppm/°C From 0~60°C ; 50ppm/25°C ± 5°C
- Operation Condition** : -5°C ~ +55°C, 20~95% RH Non-Condensed.
- Storage Condition** : -10°C ~ +70°C, 20~95% RH Non-Condensed.
- Power Fluctuation Rate** : Power can support AC/DC 85~265V or DC 24V ± 10%
- Aux. Power Effect** : \_0.03% / V
- Housing Material** : Non-Combustible PC Products, Compliance With UL 94 CLASS V-0
- Mounting** : DIN Rail or Wall Mounting
- Dimension** : 27 (W) X 119 (H) X 70 (L) mm (Base)

## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM :



# KUSAM-MECO DC ISOLATING TRANSMITTER

## EXTERNAL DIMENSIONS : mm (inch)



## TERMINAL CONNECTIONS

Connect the unit as in the diagram on the right side or refer to the connection diagram label on the side of the unit.

## CHECKING

- Terminal wiring : Check that all cables are correctly connected according to the connection diagram.
- Power input voltage : Check voltage of the terminal 10 ' 11
- Input : Check that the input signal is within 0-100%.
- Output : Check that the load resistance meets the described specifications.

## ADJUSTMENT PROCEDURE

- This unit is calibrated at the factory to meet the ordered specifications, therefore you usually do not need any calibration.
- For matching the signal to a receiving instrument or in case of regular calibration, adjust the output as explained in the following.

### HOW TO CALIBRATE THE OUTPUT SIGNAL :

- 1) ZERO : Apply 0% input and adjust output to 0%.
- 2) SPAN : Apply 100% input and adjust output to 100%.
- 3) Check ZERO adjustment again with 0% input.
- 4) When ZERO value is changed, repeat the above procedure 1) ~ 3).

## MAINTENANCE

- Regular calibration procedure is explained below :

Warm up the unit for at least 10 minutes. Apply 0%, 25%, 50%, 75% and 100% input signal. Check the output signal for the respective input signal remains within accuracy described in the data sheet. When the output is out of tolerance, recalibrate the unit according to the "ADJUSTMENT PROCEDURE" explained earlier.

## CALIBRATE THE RANGE OF THE INPUT AND OUTPUT

STIR THE POSITION OF TWD POWER															
Current input	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	Current output	SW1	SW2	SW3	SW4	SW5	SW6
0-10mA				OFF		OFF	OFF	OFF	0-10mA		OFF				OFF
0-20mA			OFF			OFF	OFF	OFF	0-20mA			OFF			OFF
4-20mA	OFF		OFF					OFF	4-20mA	OFF	OFF				
0-1mA						OFF	OFF	OFF							
Voltage input	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	Voltage output	SW1	SW2	SW3	SW4	SW5	SW6
0-5V				OFF		OFF	OFF	OFF	0-5V					OFF	OFF
1-5V		OFF		OFF		OFF		OFF	1-5V					OFF	
0-10V			OFF			OFF	OFF	OFF	0-10V		OFF		OFF	OFF	OFF

PS. It need cut a road on black dots when electric current input 0 ~ 1mA

