## **High-density Signal Conditioners 10-RACK**

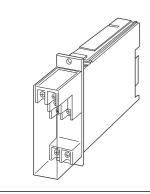
## **TACHOGENERATOR TRANSMITTER**

#### **Functions & Features**

- Converting an AC voltage from a tachogenerator (tachometer) into two standard process signals
- Optional second channel output available at the front terminals and at the Standard Rack connector

#### **Typical Applications**

• Measuring rotating or moving speed of multispeed motors, belt conveyers, metering pumps



MODEL: 10TG-[1][2][3]-R[4]

## **ORDERING INFORMATION**

- Code number: 10TG-[1][2][3]-R[4] Specify a code from below for each [1] through [4]. (e.g. 10TG-1A6-R/Q)
- Special input range (For code U)
- Specify the specification for option code /Q (e.g. /C01)

### [1] INPUT

#### Voltage

1: 0 – 35 V AC (Input resistance 200 k $\Omega$  min.) U: Specify voltage (See INPUT SPECIFICATIONS) (0 % input must be 0 V.)

## [2] **OUTPUT** 1

### Current

- **A**: 4 20 mA DC (Load resistance 600  $\Omega$  max.)
- **B**: 2 10 mA DC (Load resistance 1200  $\Omega$  max.)
- $C: 1 5 \text{ mA DC (Load resistance 2400 } \Omega \text{ max.)}$
- **D**: 0 20 mA DC (Load resistance 600  $\Omega$  max.)
- **E**: 0 16 mA DC (Load resistance 750  $\Omega$  max.)

**F**: 0 – 10 mA DC (Load resistance 1200  $\Omega$  max.)

**G**: 0 - 1 mA DC (Load resistance 12 k $\Omega$  max.)

#### Voltage

1: 0 - 10 mV DC (Load resistance 10 k $\Omega$  min.)

**2**: 0 – 100 mV DC (Load resistance 100 k $\Omega$  min.)

**3**:  $0 - 1 \text{ V DC (Load resistance } 100 \Omega \text{ min.)}$ 

**4**: 0 - 10 V DC (Load resistance 1000  $\Omega$  min.)

**5**:  $0 - 5 \text{ V DC (Load resistance } 500 \Omega \text{ min.)}$ 

**6**: 1 – 5 V DC (Load resistance 500  $\Omega$  min.)

### [3] **OUTPUT** 2

0: None

#### **Voltage**

**6**: 1 – 5 V DC (Load resistance 5000  $\Omega$  min.)

#### **POWER INPUT**

#### **DC Power**

R: 24 V DC

(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

## [4] OPTIONS

blank: none

/Q: With options (specify the specification)

## **SPECIFICATIONS OF OPTION: Q**

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

## **GENERAL SPECIFICATIONS**

**Construction**: Rack-mounted; terminal access via screw terminals at the front and via card-edge connector at the

rear; terminal cover provided

#### Connection

FAX: (02)2596-2331

Input: M3.5 screw terminals (torque 0.8 N·m)

Output: Card-edge connector and M3.5 screw terminals

(torque 0.8 N·m)

**Power input**: Supplied from card-edge connector

Screw terminal: Nickel-plated steel

**Housing material**: Flame-resistant resin (black) **Isolation**: Input to output 1 to output 2 to power **Overrange output**: Approx. 0 to 120 % at 1 – 5V

TEL: (02)2598-1199 E-mail: info@xintop.com

Website: www.xintop.com

**Zero adjustment**: -5 to +5 % (front) **Span adjustment**: 95 to 105 % (front)

## **INPUT SPECIFICATIONS**

Minimum span: 50 mV Input span: Input Resistance 50 mV - 3 V : 10 k ( $\Omega$  minimum)



≥ 3V : 200 k

Frequency: 100 Hz min., 1 kHz max. with 100 % input

## **INSTALLATION**

Current consumption: Approx. 35 mA with voltage output 1

Approx. 55 mA with current output 1

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Standard Rack 10BXx

Weight: 200 g (0.44 lb)

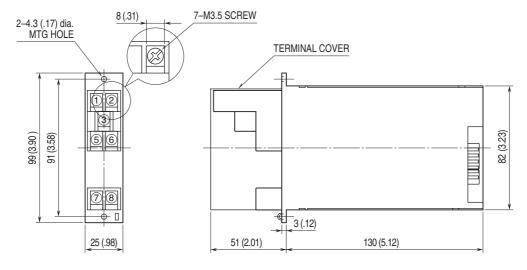
## PERFORMANCE in percentage of span

Accuracy:  $\pm 0.4$  % (excluding  $\leq 15$  Hz) Temp. coefficient:  $\pm 0.02$  %/°C ( $\pm 0.01$  %/°F) Response time:  $\leq 0.5$  sec. (0 – 90 %) Ripple: 0.5 %p-p max. (100/120 Hz)

Line voltage effect:  $\pm 0.1$  % over voltage range Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC Dielectric strength: 500 V AC @ 1 minute (input to output 1 to output 2 to power)

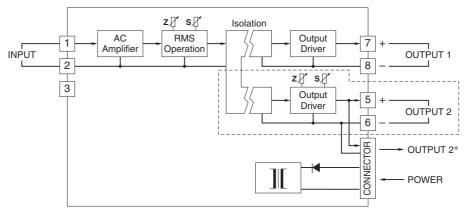
1500 V AC @ 1 minute (input or output or power to ground)

# **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)**



MODEL: 10TG

## **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



<sup>\*1</sup> output type has the output 1 connected to the card-edge connector in parallel. Remark 1) The section enclosed by broken line is only for 2nd output channel.



Specifications are subject to change without notice.

幸託有限公司 **XIN TOP CORPORATION** 

FAX: (02)2596-2331 Website: www.xintop.com