

# Panel Mount Tachometers

## DT-5TG

### *Advanced microprocessor-controlled design*

Shimpo's DT-5TG is a multi-purpose instrument capable of displaying not only RPM, but also surface speed, flow rate, elapsed time and other units. The DT-5TG accepts a variety of modules, enabling it to perform different output functions such as 0-10vdc and 4-20ma, set points (relay closures), RS232C signals, etc.

The DT-5TG is available in three configurations:

**DT-5TG-0** Does not accept any modules

**DT-5TG-1** Accepts the following modules:

- DOP-FV (voltage/current output)
- DOP-CP (triple relay output)
- DOP-SD (RS232C/Mitutoyo output)
- DOP-BC (BCD output)

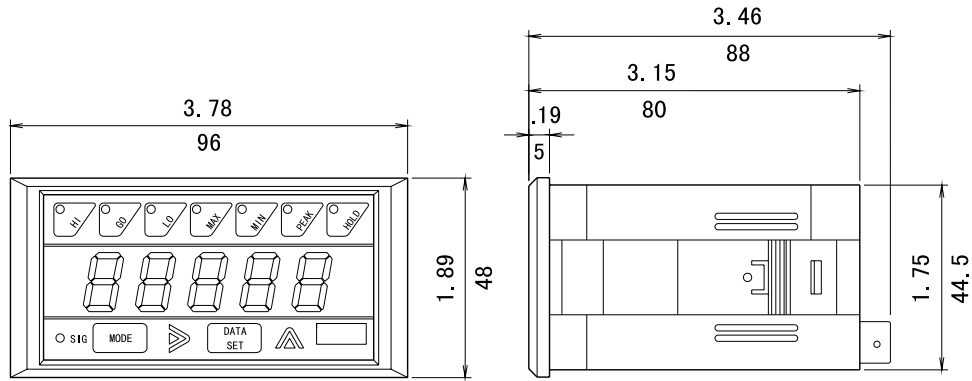
**DT-5TG-2** Accepts a combination of 2 of the following modules:

- DOP-FV (voltage/current output)
- DOP-CP (triple relay output)
- DOP-SD (RS232C/Mitutoyo output)
- DOP-BC (BCD output)



<b>Features</b>	<b>Benefits</b>
<b>Fully scalable</b>	Select almost any unit of measure
<b>Accepts various modules; works with a variety of sensors</b>	Many output options to select; can match unit with virtually any sensor in the field
<b>Highly accurate</b>	Ideal for applications requiring high precision measurements
<b>Direct programming</b>	Eliminates need to memorize mathematical formulas
<b>Tolerates wide voltage range (85-264VAC 50/60Hz)</b>	Does not require line voltage rewiring
<b>Selectable update time</b>	A must for accelerating/decelerating applications
<b>Provides DC voltage to power various sensors</b>	Saves money; does not require a separate power supply
<b>Easy mounting</b>	Saves time; no hardware required
<b>Convenient front panel programming</b>	Parameters are easily visible
<b>Self-testing ability</b>	Provides peace of mind

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Information on DT-5TG compatible **MODULES** can be found on page 36.



Information on DT-5TG compatible **SENSORS** can be found on pages 38-39.

## SPECIFICATIONS

Model	DT-5TG
Display Range	0.0000 - 9.9999, 0.000 - 99.999, 0.00 - 999.99, 0.0 - 9999.9, 0 - 99999
Measuring Range	10 - 99,999 RPM (at 1 p/r), 0.2 - 30,000 RPM (at 60 p/r)
Accuracy	± 0.008 % ± 1 digit
Display Update Time	0.25, 0.5, 1, 2, 4, 8, and 16 seconds (selectable)
Time Base	Controlled by a 4.194304 MHz crystal
Display	5 digit 0.56" (14.2 mm) high LED
Input No. of P/R	1 to 9,999 (programable)
Input Signal Characteristics	Sine wave. max. frequency 10 kHz Square wave. max. frequency 30 kHz Contact closure. max. frequency 20 Hz Open collector with 20 μsec minimum
Input Signal Amplitude	Sine wave (0.3 - 30 VP-P depending on frequency) Square wave LO : 0 -1.5 V, HI : 4 - 30 V
Input Impedance	10 KΩ for magnetic pickup, rotary encoder and proximity switch only
Sensor Power Supply	12 VDC ± 5 % (50 mA max.)
Voltage Requirement	85 - 264 VAC (50/60 Hz) (9 - 35 VDC at 1 W also available)
Power Consumption	1 W (5 W when optional modules are used)
Ambient Temperature	32° - 113° F (0 - 45° C)
Weight	0.55 lb (250 g)
Dimensions	3.46" L x 3.78" W x 1.89" H (88 mm x 96 mm x 48 mm)
Warranty	1 year
OPTIONAL ACCESSORIES	Sensors, modules