

High-Performance Tachometers

DT-5TXR/5TFR/5TVR Series



DT-5TXR: Basic input type.

DT-5TFR: Differential input type.

DT-5TVR: Voltage/Current input type.

DT-5TXR/5TFR/5TVR Series High-Performance Tachometers

A high-performance panel-mount meter equipped with dual sub-indicators, having excellent waterproof properties (equivalent to IP66) and simple setting features. It accepts input signals from various devices such as rotary encoders, magnetic sensors, and line drivers, as well as analog input (basic input: DT-5TXR, differential input: DT-5TFR, voltage input: DT-5TVR). Provided with a memory function to store and indicate the maximum and minimum values.

Features

Provided with various functions including calibration, memory, and prescaling

The tachometer accepts input signals from various devices such as magnetic sensors and line drivers, as well as analog input.

Simple setting

Various input/output functions can easily be added and modified, simply by inserting an optional board as a replacement. (Optional boards are sold separately.)

The dual sub-indicators enable the operator to check the upper and lower limit values at a glance

Excellent waterproof properties

Capable of accepting high-speed input at 100 kHz (DT-5TXR, DT-5TFR)

The space-saving design, DIN W96 x H48 x D92 mm (panel inside 83 mm), allows combination with a compact machine without difficulty.

Provided with a memory function to store and indicate the maximum and minimum values

Measurement modes

DT-5TXR/5TFR

RPM or Rate Measurement Mode	The device serves as a tachometer or a speedometer, and indicates values proportional to the input.
Elapsed Time Measurement/Monitoring Mode	The device indicates values inversely proportional to the input. The values are either displayed by the hour, minute, and second, or displayed in units of 1/100 seconds. Suited for indicating the transit time on conveyor belts or the like.
Process Time Measurement Mode	The device measures the duration for which the input signal stays ON or OFF. For example, it is possible to measure the time for various processes.
Flow Rate Measurement Mode	In combination with a pulse-output flow meter, the device indicates the instantaneous flow rate according to the predetermined quantity of flow per pulse.

Models / Options

DT-5TXR/5TFR/5TVR

Model Code Configuration



No.	Specification	Code	Description
1	Type of input	5TXR	Basic input
		5TFR	Differential input
		5TVR	Voltage/current input
2	Power source	A	AC power source (AC 85-264 V)
		D *1	DC power source (DC 9-35 V)
3	First option *4 (terminal block input/output)	FVTR	Analog signal (voltage/current) output
		CPTR	Relay output
		TRTR	Transistor output
		RMTR	External signal input (basic) *2
		DRTR	External signal input (differential) *3
4	Second option *4 (connector output)	FVCR	Analog signal (voltage/current) output
		BCDR	BCD output

*1: The DC power source type is available only for the DT-5TXR series.

*2: When a DT-5TVR series unit is connected to RMTR, external signal input applies.

When a DT-5TXR series unit is connected to RMTR, it serves as a ratio meter.

*3: When a DT-5TFR series unit is connected to DMTR, it serves as a ratio meter.

*4: Please note that, after purchase of the main unit, only an option with a code ending with "R" can be connected as the first option.
(This limitation does not apply to the second option.)

Series Selection Guide

Input/output form			Model code	
Main unit	First option	Second option	AC power source type	DC power source type
Basic input	-	-	DT-5TXAR	DT-5TXDR
		Analog signal (voltage/current) output	DT-5TXAR-FVCR	DT-5TXDR-FVCR
		BCD output	DT-5TXAR-BCDR	DT-5TXDR-BCDR
	Analog signal (voltage/current) output	-	DT-5TXAR-FVTR	DT-5TXDR-FVTR
		BCD output	DT-5TXAR-FVTR-BCDR	DT-5TXDR-FVTR-BCDR
	Relay output	-	DT-5TXAR-CPTR	DT-5TXDR-CPTR
		Analog signal (voltage/current) output	DT-5TXAR-CPTR-FVCR	DT-5TXDR-CPTR-FVCR
		BCD output	DT-5TXAR-CPTR-BCDR	DT-5TXDR-CPTR-BCDR
	Transistor output	-	DT-5TXAR-TRTR	DT-5TXDR-TRTR
		Analog signal (voltage/current) output	DT-5TXAR-TRTR-FVCR	DT-5TXDR-TRTR-FVCR
		BCD output	DT-5TXAR-TRTR-BCDR	DT-5TXDR-TRTR-BCDR
Differential input	-	-	DT-5TFAR	
		Analog signal (voltage/current) output	DT-5TFAR-FVCR	
		BCD output	DT-5TFAR-BCDR	
	Analog signal (voltage/current) output	-	DT-5TFAR-FVTR	
		BCD output	DT-5TFAR-FVTR-BCDR	
	Relay output	-	DT-5TFAR-CPTR	
		Analog signal (voltage/current) output	DT-5TFAR-CPTR-FVTR	
		BCD output	DT-5TFAR-CPTR-BCDR	
	Transistor output	-	DT-5TFAR-TRTR	
		Analog signal (voltage/current) output	DT-5TFAR-TRTR-FVCR	
		BCD output	DT-5TFAR-TRTR-BCDR	
Voltage/current input	-	-	DT-5TVAR	
		Analog signal (voltage/current) output	DT-5TVAR-FVCR	
		BCD output	DT-5TVAR-BCDR	
	External signal input	-	DT-5TVAR-RMTR	
		Analog signal (voltage/current) output	DT-5TVAR-RMTR-FVCR	
		BCD output	DT-5TVAR-BCDR	
	Analog signal (voltage/current) output	-	DT-5TVAR-FVTR	
		BCD output	DT-5TVAR-FVTR-BCDR	
	Relay output	-	DT-5TVAR-CPTR	
		Analog signal (voltage/current) output	DT-5TVAR-CPT-FVCR	
		BCD output	DT-5TVAR-CPTR-BCDR	
	Transistor output	-	DT-5TVAR-TRTR	
		Analog signal (voltage/current) output	DT-5TVAR-TRTR-FVC	
		BCD output	DT-5TVAR-TRTR-BCDR	