

RT362 | Rotary Temperature Transmitter For Trützschler (SwissTex/Rieter) Roll Motors

*TempTrak® All-Digital Technology
For Precise Godet Temperature Control*

This RT362 Series Transmitter is a two-channel temperature measurement system designed to operate with Trützschler roll motors using Dienes process controllers. The RT362 produces a frequency signal for temperature control and speed output pulses for RPM indication. Generous 5 mm clearance between the rotating and stationary parts eliminate rubbing or impacting – a common failure cause in other designs. Digital circuitry in the rotating transmitter and the stationary receiver are immune to electrical noise and drift. Error detection modes protect heater from damage and expedite troubleshooting in the event of sensor or other failure.

- Fits Trützschler (SwissTex/Rieter) rolls with Dienes controllers
- Detection modes for sensor faults
- 5 mm clearance between rotor and stator



FEATURES

Accurate ■ Within $\pm 0.1\%$ (0.3°C) across entire sensing range.

Robust ■ Fully encapsulated electronics with 5mm clearance between the rotary and stationary parts.

Dienes Compatible ■ A true drop-in replacement that fits existing shaft and motor housing. Works with existing wiring and process control systems.

Digital Circuitry ■ Maintains calibration and is immune to electrical noise and drift.

Intelligent ■ Protects heater if sensor or transmitter fail.

Product Support ■ Backed by Binsfeld's reputation for the strongest customer support in the industry and includes a **two-year warranty**.

BINSFELD ENGINEERING INC.

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RT362 Rotary Temperature Transmitter Series

TYPICAL SPECIFICATIONS

Rotor

Number of Sensors:	2
Input Sensor Type:	PT100 RTD (100 Ω at 0°C, $\alpha = .00385$)
Sensor Range:	0 – 300°C
Speed:	10,000 RPM

Stator

Output Connection:	Screw terminals with M3.5 x 6mm socket head screws
Output Signals:	Time Multiplexed Frequency Signal (Dienes curve: 362.48 – 749.86 Hz) Speed Output Pulse (2 per revolution)
Power Input:	11 – 18 VDC, 30 mA nominal, 100 mA maximum

General

Accuracy:	$\pm 0.3^\circ\text{C}$ at measured value of 150°C at 25°C ambient ($\pm 0.10\%$ FS for a 300°C range) $\pm 0.6^\circ\text{C}$ over 0 to 300°C measured value and 25 to 85°C ambient ($\pm 0.20\%$ FS for a 300°C range)
Operating Temperature:	0 – 100°C
Rotor-Stator Spacing:	5 mm nominal (2.5 mm to 7.5 mm allowable)

Specifications subject to change without notice.



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