

# RT406-1C | Rotary Temperature Transmitter

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

The RT406-1C is a multi-channel temperature measurement system designed to monitor and control temperature on heated godet roll shells. Digital circuitry in the rotating transmitter and the stationary receiver are immune to electrical noise and drift. Generous 5 to 25 mm clearance between the rotating and stationary parts eliminate rubbing or impacting – a common failure cause in other designs. Error detection modes protect heater from damage and expedite troubleshooting in the event of a sensor or other failure. The system features digital communication via a single CAN bus and is a drop-in replacement for the 6-channel Neumag Multichannel Godet Controller used on Neumag S5 machines.

- CAN bus I/O interfaces with Neumag control system
- Generous 5 to 25 mm rotor-stator clearance
- Digital circuitry from sensor input to signal output



## FEATURES

**Accurate** ■ Within  $\pm 0.5^{\circ}\text{C}$  across entire sensing range.

**Robust** ■ Fully encapsulated electronics with generous clearance between rotor and stator.

**Neumag Compatible** ■ A true drop-in replacement that works with existing wiring and process control systems.

**Versatile** ■ Other I/O schemes available

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

**Intelligent** ■ Protects heater if sensor or transmitter malfunctions.

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

BINSFELD ENGINEERING INC.

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## TYPICAL SPECIFICATIONS

### Rotor

Number of Sensors:	6
Input Sensor Type:	PT1000 RTD (1000 $\Omega$ at 0°C, $\alpha$ =.00385)
Sensor Range:	0 – 300°C
Speed:	10,000 RPM

### Stator

I/O Connectors:	CAN bus: 5-pin (CONEC PN: 43-01013)
I/O Signals:	CAN bus: 500k baud for communication with heater power controller
Power Input:	17 – 30 VDC, 500mA (max)

### General

Accuracy (max error):	$\pm 0.5^{\circ}\text{C}$ (Maximum over ambient operating range for 0-300°C RTD range)
Operating Temperature:	0 – 85°C
Rotor-Stator Spacing:	16 mm nominal (5 – 25 mm allowable)

*Specifications subject to change without notice.*

### Warranty

Binsfeld Engineering Inc. warrants that its RT406 Series Transmitters will be free from defective materials and workmanship for a period of two years from the date of delivery to the original purchaser and that its products will conform to specifications and standards published by Binsfeld Engineering Inc. Upon evaluation by Binsfeld Engineering Inc., any product found to be defective will be replaced or repaired at the sole discretion of Binsfeld Engineering Inc. Our warranty is limited to the foregoing. Binsfeld Engineering Inc. disclaims any warranty of merchantability or fitness for intended purpose.



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