

RT362C Converter (802-360)

The RT362C is a specialized control signal converter used in the temperature control system for heated godets. The RT362C converts a two-channel multiplexed frequency Dienes-format temperature input signal to two distinct 4-20 mA output signals compatible with standard process controllers. The unit features error detection and indication to protect the heater from damage and expedite troubleshooting in the event of a sensor or other failure.



Installation

1. DIN rail (35 mm) mount the RT362C Converter at a convenient location.
CAUTION: To promote airflow and prevent overheating, the RT362C must have at least 1-inch clearance above and below the enclosure.
2. Apply input power, 20-36 VDC or 15-25 VAC, to the Power Input connection of the Converter module.
3. Connect the positive output terminal (e.g. +Vp) from the rotor to the +Vp terminal of the Converter.
4. Connect the common terminal from the rotor to the "Com" terminal of the Converter.
5. Connect the shielding of the shielded cable to the "Shld" terminal of the Converter.

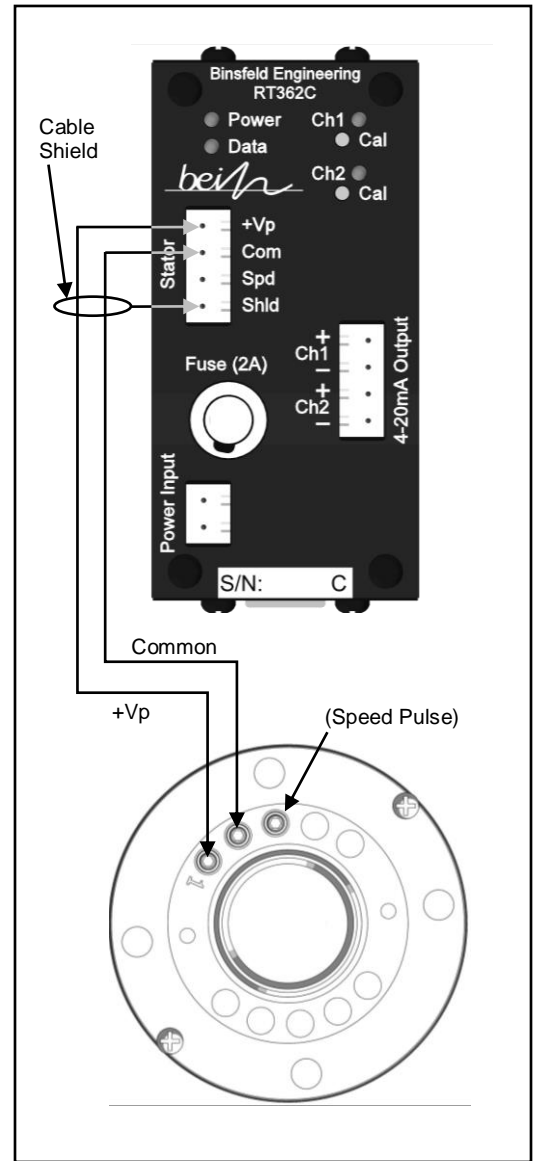
Troubleshooting

Flashing Indicator	Error Indicated	4-20 mA current out error condition	Troubleshooting (in order listed)
Power	Power supply Error detected.	All outputs to 24 mA	Check power input connections, wiring, swap Converter
Data	Data from Rotor/Stator in error.	All outputs to 24 mA	Check rotor/stator connections, wiring, swap stator and/or rotor
RTDs	RTD measures out of Range	Affected output(s) to 24 mA	Check RTD connections, wiring, swap rotor.

If the status lights do not agree with conditions listed above, remove power to the RT362C for 5 seconds, and then restore power (to reset the digital circuitry).

Specifications

Output connection:	Quick connect screw terminal block
Output signal:	4-20 mA
Voltage:	20 to 36 VDC or 15 to 25 VAC
Power:	6 W (max.), 4 W (min.)
Accuracy (typical error):	±0.15% span over 25 – 100°C, ambient temperature range ±0.30% span over operating temperature range
Operating Temp.:	0 – 100°C
Humidity:	0 – 90% RH, non-condensing



Interconnection Diagram

This document is subject to change without prior notification.

Warranty

Binsfeld Engineering Inc. warrants that its RT360 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.