

TOSHIBA

Toshiba 8-Channel RTD Input RT318 Specifications

8-channel rtd input

1
2
3
4

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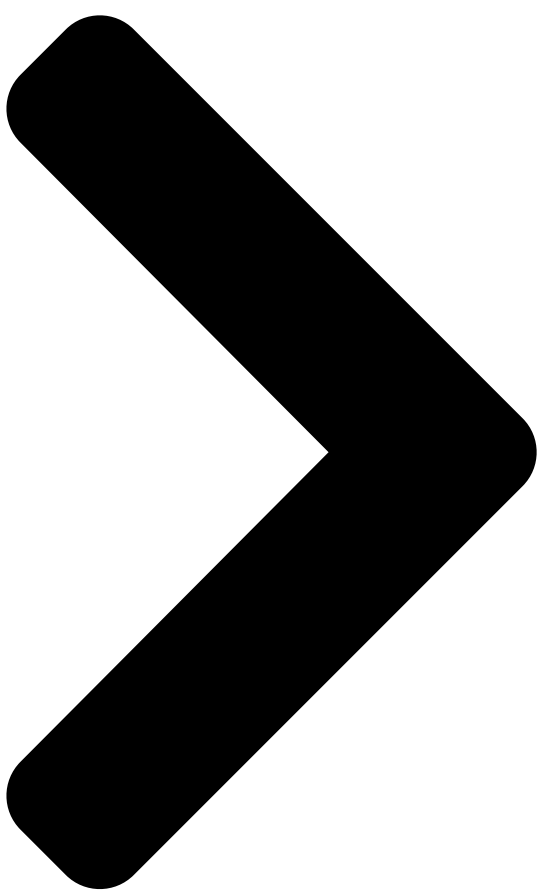
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Bookmarks

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Quick Links



RT318

8-channel RTD input

Type

Category

Resistance temperature detectors

Measuring method

Load current

Temperature measurement range

Converted data

Input channel

Insulation

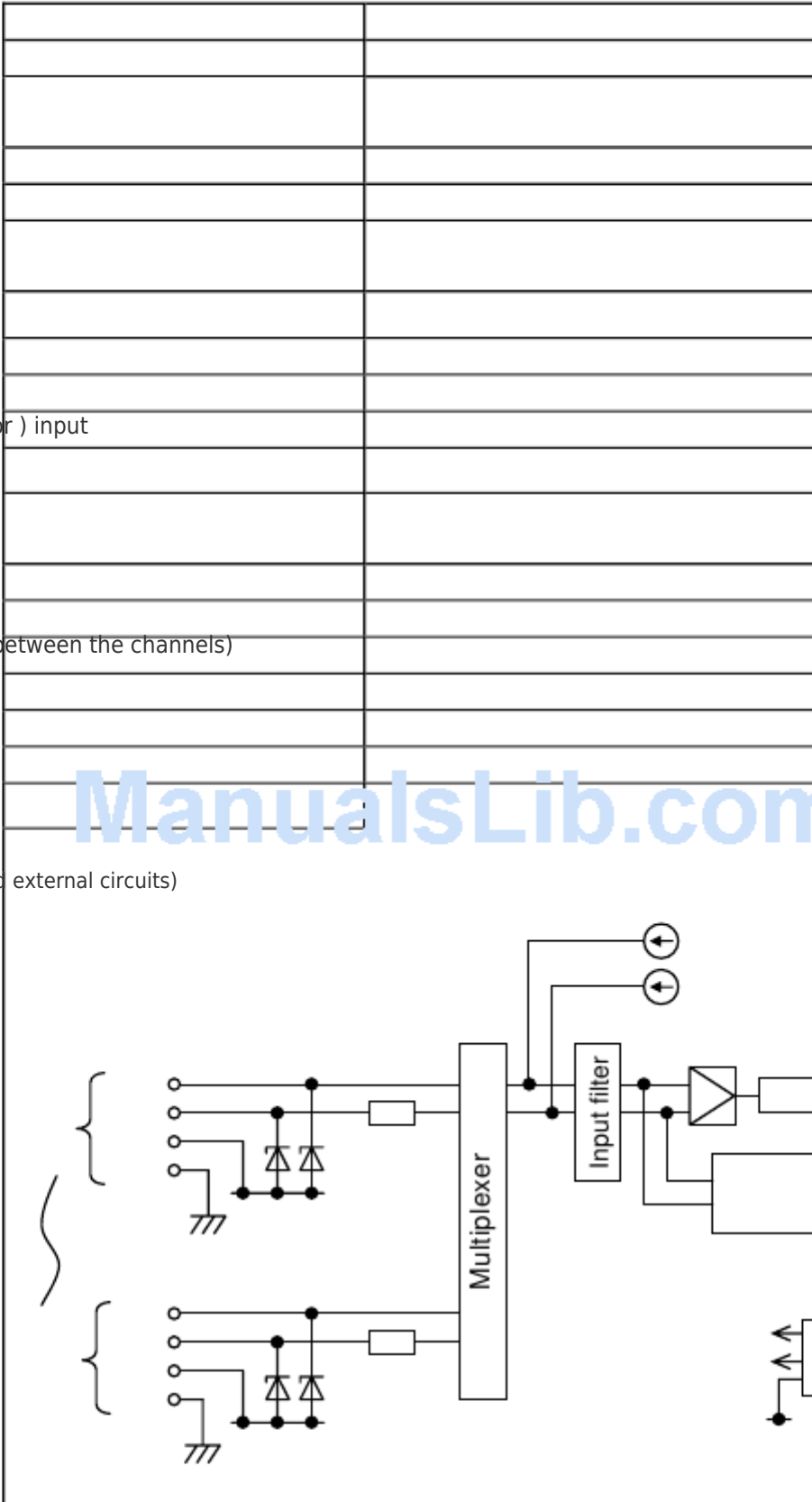
Conversion rate

Resolution

Wire resistance correction

[illegible]

range	
Overall accuracy	
Temperature drift	
Internal current consumption	
Insulation resistance	
Withstand voltage	
Weight	
Internal circuit	
1A	
1B	
CH1	
1C	
1G	
8A	
8B	
8C	
CH8	
8G	
1	
RT318	
RTD (Resistance Temperature Detector) input	
Pt100	
Three-wire system	
1 mA	
-50 ° to +270 ° C (-58 ° to +518 ° F)	
800 to 4000	
8 channels / module	
Photo-coupler insulation (not isolated between the channels)	
400 ms / 8 channels	
12 bits / 0.025 % (0.1 ° C / count)	
Within 4 Ω	
± 0.3 % (at 25 ° C)	
± 100 ppm / ° C	
5 Vdc, 600 mA or less	
10 M Ω (500 Vdc)	
500 Vac, 1 minutes (between internal and external circuits)	
500 g	
Current source	
1 mA	
1 mA	
Rref	
AG	
Rref	
AG	
AMP	
ADC	
PC	
Wire break	
PC	
detection	
5 Vdc	
+15V	
-15V	
DC/DC	
0V	
PC : Photo-coupler	



[Next Page](#)

1
2
3
4

Related Manuals for Toshiba 8-Channel RTD Input RT318

[I/O Systems Toshiba FL654A User Manual](#)

FI-net remote i/o station module (116 pages)

[I/O Systems Toshiba AD268 User Manual](#)

Programmable controller prosc t2-series analog i/o modules (86 pages)

Summary of Contents for Toshiba 8-Channel RTD Input RT318

[Page 1](#) RT318 8-channel RTD input Type Category Resistance temperature detectors
Measuring method Load current Temperature measurement range Converted data Input
channel Insulation Conversion rate Resolution Wire resistance correction range Overall accuracy
Temperature drift Internal current consumption Insulation resistance Withstand voltage Weight
Internal circuit RT318 RTD (Resistance Temperature Detector) input...

[Page 2](#) Terminal connections Terminal Terminal Function name (NC) No Connection (NC) (do
not connect any wire) (NC) (NC) (NC) (NC) RTD input channel 1 RTD input channel 2 RTD input
channel 3 RTD input channel 4 RTD input channel 5 RTD input channel 6 RTD input channel 7
RTD input channel 8...

[Page 3](#) RT318 (1) Status indicator LEDs (PWR/FLT/RUN) 1) PWR PWR will be lit in normal state
of analog power supply, and will not be lit in abnormal state. 2) FLT FLT will be lit if an error has
occurred in the module. 3) RUN RUN will be lit in normal state of the module, and will not be lit
in abnormal state.

[Page 4](#) How to wire Shielded twisted cable (Pt100) Resistance Temperature Detector Channel
number Analog ground FG : Frame ground If measurement values are unstable due to noise
influences, change the grounding for the shield in the following order for stable measurement.
Shielded twisted cable (Pt100) Shielded twisted cable...

This manual is also suitable for:

RT318