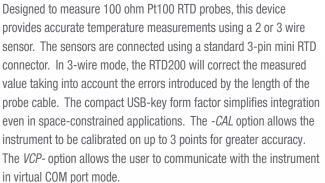


2/3 WIRE RTD SENSOR TO USB ADAPTER

RTD200





INSTALLATION TIME

Less than 10 minutes

UNIQUE SERIAL NUMBER

Each unit is assigned a unique serial number allowing for traceability and certification

FREE DAO SOFTWARE

Real-time data visualization and logging

DATA INTEGRATION

Command-line tools for direct data access and integration

OPTIONS

Virtual COM Port (VCP) communication protocol

3-point user calibration mechanism

ALSO AVAILABLE

Traceability certificates

SPECIFICATIONS					
Parameter	Condition	Value	Units		
Temperature					
Unit operating range	Probe dependant	- 200 to 800	°C		
ADC resolution	_	18	bits		
Temperature resolution	Тур.	0.02	°C		
Accuracy	Typ., at 25°C Excluding probe	±0.06	°C		
Response time	t63%	Probe dependant			
Sensing element type	RTD	100	Ohms		
Samples rate	Up to 3 SPS	250	mS		
Factory calibrated	Individually ^[2]	Yes	-		
Calibration value point	-	0.000	°C		
Pre-wired PT100 probe available	Yes	See image below	-		

SPECIFICATIONS						
Parameter	Condition	Value	Units			
Power supply						
Voltage	Powered through a USB port	5	V			
Current Consumption	At 5V	≈19	mA			
Mechanical						
Dimensions	See schema below	-	-			
Colour	Cyan	_				
Weight	Without USB cable	25	g			
Housing and USB cable						
Operating temperature	-	-20 to 70	°C			
Operating relative humidity	Non-condensing	10 to 90	%RH			
Material	ABS plastic					
IP rating	-	51 ^[3]	-			
System galvanic isolation	-	None	-			
Miscellaneous						
Connection	Polarized 3-pin standard ^[1] miniature receptacle					
Long-term stability	-	Yes	-			
Temperature compensated	-	Yes	-			

APPLICATIONS

Pre-certification

Building automation

Server rooms

Green house

Manufacturing

Engineering

Research & development

Environmental chamber

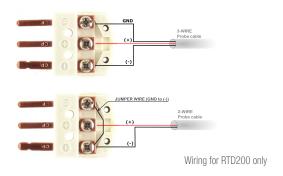
^[1] Not all pre-wired probes are wired the same and may require wiring rearrangement in its connector.

^[2] Each sensor is individually calibrated by Dracal technologies and their correction coefficients are stored in each of them.

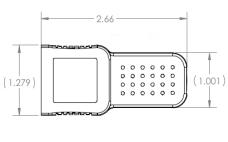
^[3] If water condensation is possible, it is recommended to install the probe pointing down to reduce the risk of water build-up in the sensor. If water splashing is possible, protect the sensor and cable converter using extra precautions. Extra housing may be required depending on the application.

PROBE WIRING OPTIONS





PRODUCT DIMENSIONS





AVAILABLE CHANNEL(S) As displayed in our logging software				
CHANNEL ID*	DESCRIPTION	TYPE	NATURE	
00	PT100 Temperature sensor	Temperature	Real	

* Channel Id as it appears in DracalView. Virtual channel Id differ in DracalView and dracal-usb-get.

CAUTION: Please keep in mind that electromagnetic interference (EMI) may decrease the accuracy of the sensor. Avoid using this device near EMI sources such as motors, high voltage transformers and fluorescent tubes.

NOTE: Note that this product is not waterproof and requires protection if contact with water is possible.

TIP: Avoid installing the sensor in a location where strong vibration is likely to occur. Strong vibrations may cause slight inaccuracies in the reading.

TIP: As for any precision measurement equipment, it is advised to power on the unit at least 15 minutes before using it.

ORDERING				
PRODUCT(S)				
PART NUMBER	OPTION	DESCRIPTION		
601046	USB-RTD200	2/3 Wire RTD sensor to USB adapter		
603046	VCP-RTD200	2/3 Wire RTD sensor to USB adapter - with VCP mode		
608046	USB-RTD200-CAL	2/3 Wire RTD sensor to USB adapter - calibratable		
601108	RTD-PT100_SIL_A	RTD probe for the RTD200 (sold separetly)		
TRACEABILITY CERTIFICATE(S)				
NT1WT	1-point temperature certificate for one (1) unit			
NT2WT	2-point temperature certificate for one (1) unit			
NT3WT	3-point temperature certificate for one (1) unit			

Warning: This product should not be used in applications where its failure may cause personal injury.

While every effort has been made to ensure accuracy in this publication, no responsibility can Note:

Data may change without notification, and you are strongly advised to obtain copies of the most recently issued datasheet.

