

TECHNICAL DATASHEET #TDAX184200 20 PT1000 RTD Scanner

20 2-wire PT1000 Inputs CAN, SAE J1939 with Axiomatic Electronic Assistant P/N: AX184200

Description:

The 20 PT1000 RTD Scanner monitors 20 2-wire PT1000 inputs from a diesel engine and the temperature information is provided to the engine control system over a SAE J1939 CAN bus. Each channel operates independently. Temperature information can include exhaust temperature, winding temperature, and fluid temperature monitoring. All channels of temperature data are automatically sent over the CAN bus when power is applied with no additional programming or configuration required. Integral diagnostics determine RTD integrity. RTD inputs are isolated from the CAN communication and power supply.

During set-up, using an USB-CAN converter and a PC, the operator can configure the controller via the Axiomatic Electronic Assistant to suit the application.



The RTD Scanner features rugged packaging and watertight connectors for an IP67 rating. The connectors are TE Deutsch equivalents. The RTD Scanner is designed to meet the environmental, EMC and vibration requirements of vehicle applications.

Applications:

- Military COTS applications for vehicles
- Power Generator Sets

Ordering Part Number:

20 PT1000 RTD Scanner Module. SAE J1939 P/N: AX184200

(Passive auto-baud-rate detection. Supported options are 250 kbit/s, 500 kbit/s, and 1 Mbit/s.)

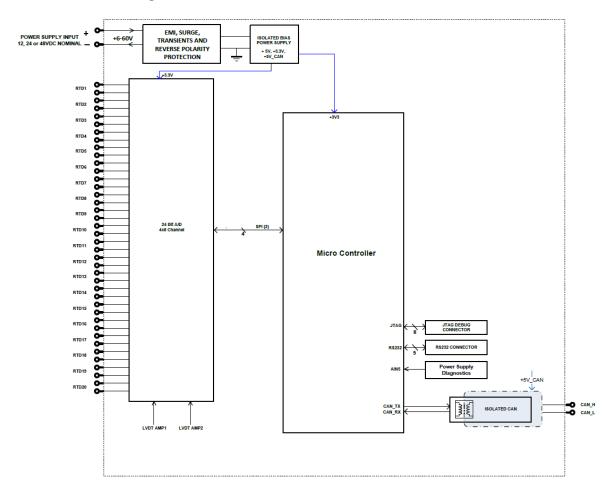
Accessories:

Mating Plug for 40-pin connector, order P/N: **AX070210** Mating Plug for 12-pin connector, order P/N: **PL-DTM06-12S**

Axiomatic Electronic Assistant Configuration KIT, P/Ns: AX070502, AX070505K, or

AX070506K

Functional Block Diagram



Technical Specifications

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on https://www.axiomatic.com/service/.

Power and Protections

Fower and Protections					
Power Supply Input	pply Input 12/24/48 VDC nominal (8 to 65 VDC power supply range)				
	50 or 60 Hz is user selectable.				
Quiescent Current	70 mA @ 12 VDC; 35 mA @ 24 VDC typical				
	Inrush does not exceed 500 mA.				
Protection	Reverse polarity protection is provided.				
	Power supply input section protects against transients, surges (up to 175 V) and short				
	circuits and is isolated from RTD inputs				

RTD Inputs

RTD Types	Up to 20 channels, independently configurable for 2-wire RTDs. Each channel operates independently.
RTD Inputs	The device accepts inputs within the following range of 200 to 4000 Ω . Accuracy: $\pm 1^{\circ}$ C with offset calibration performed at R = 1000 Ω (typical at ambient temperature) Resolution: 0.001°C

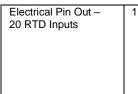
	Isolation voltage is 400V.		
Shield	To connect a Shield, use the grounding stud provided on the base plate.		
Scan Rate	500ms per channel		
	Total Sweep Time: 3000ms (for RTD 1-10) and 2500ms (for RTD 11-20)		
Common Mode Readings	Input range 0 to ±2 VDC maximum		
	Rejection is 115 db at 5 Vp-p (50 to 60 Hz)		
Thermal Drift	40 ppm/°C of span (maximum)		
Isolation	Digital isolation is 400 VDC from input to ground.		
	Three-way isolation is provided for the CAN line, inputs, and power supply.		

Communications

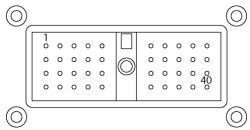
CAN	1 CAN 2.0B port, protocol SAE J1939			
	Passive auto-baud-rate detection. Supported options are 250 kbit/s, 500 kbit/s, and 1 Mbit/s.			
	Digital isolation is provided for the CAN line.			
N	According to the CAN standard, it is necessary to terminate the network with external			
Network Termination	termination resistors. The resistors are 120 Ohm, 0.25W minimum, metal film or similar type.			
	They should be placed between CAN_H and CAN_L terminals at both ends of the network.			

General Specifications

Microcontroller	STM32F405RG			
	12-bit, 1 MB Flash Memory			
Control Logic	User programmable functionality with the Axiomatic Electronic Assistant.			
	Refer to the User Manual.			
SAE J1939 Profile	For J1939 compliance (SAE, Recommended Practice for a Serial Control and			
	Communications Vehicle Network, October 2007) all modules comply with the applicable			
	portions of the following:			
	SAE J1939-21, December 2006, Data Link Layer			
	SAE J1939-71, January 2009, Vehicle Application Layer			
	SAE J1939-73, September 2006, Application Layer – Diagnostics			
	SAE J1939-81, May 2003, Network Management			
	Customer specific proprietary extensions can also be included in the SAE J1939 profile on			
	request.			
User Interface	The Axiomatic Electronic Assistant (EA)			
	Updates for the Axiomatic EA are found on www.axiomatic.com under the log-in tab.			
Vibration	MIL-STD-202G			
	Test 204D and 214A (Sine and Random), 10 g peak (Sine), 7.86 Grms peak (Random)			
Shock	MIL-STD-202G, Test 213B, 50 g			
Operating Temperature	-40°C to 85°C (-40°F to 185°F)			
Storage Temperature	-50°C to 120°C (-58°F to 248°F)			
Humidity	Protected against 95% humidity non-condensing, 30°C to 60°C			
Protection	IP67			
Weight	2.15 lb. (0.98 kg)			
Enclosure	Rugged aluminum housing, stainless steel end plates, neoprene gaskets			
	142.88 x 149.00 x 73.00 mm (5.63 x 5.86 x 2.87") L x W x H			
	Connectors - (equivalent TE Deutsch P/Ns: 1 12-pin DTM13-12PA, 1 40-pin DRC13-40PA)			
	Can be mounted directly on the power generator set or remotely			
	Suitable for moist, high shock, vibrating and non-hazardous environments			
Mating Connectors	Axiomatic P/N: AX070210			
	The 40 pin connector mates with the TE Deutsch equivalent DRC16-40S (1) connector, and			
	0462-201-16141 (40) SOLID CONTACT SOCKET, Nickel, SIZE 16 for 16-20 AWG wire, 13A			
	maximum current rating. These are available by ordering AX070210.			
	Axiomatic P/N: PL-DTM06-12S			
	The 12 pin connector mates with the TE Deutsch equivalent DTM06-12SA (1), WM-12S (1)			
	and 0462-201-20141 (12) SOLID CONTACT SOCKET, Nickel, SIZE 20 for 20 AWG WIRE,			
	7.5A maximum current rating. These are available by ordering PL-DTM06- 12S.			



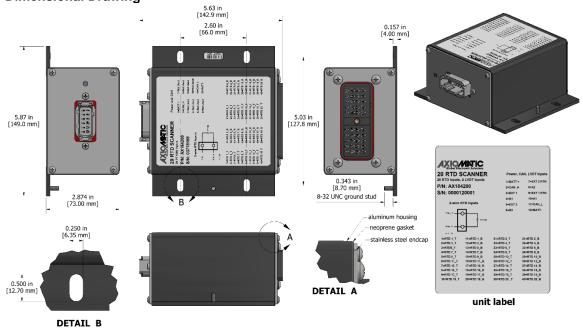
1 TE Deutsch equivalent P/N: DRC13-40PA



PIN# Description 1			
2 RTD 3_T 3 RTD 5_T 4 RTD 7_T 5 RTD 9_T 6 RTD 11_T 7 RTD 13_T 8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 10_T 27 RTD 14_T 28 RTD 16_T 29 RTD 14_T 29 RTD 14_T 29 RTD 14_T 29 RTD 2_B 30 RTD 2_B 31 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 14_B 39 RTD 14_B	PIN#	Description	
3 RTD 5_T 4 RTD 7_T 5 RTD 9_T 6 RTD 11_T 7 RTD 13_T 8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B	1		
3 RTD 5_T 4 RTD 7_T 5 RTD 9_T 6 RTD 11_T 7 RTD 13_T 8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B	2	RTD 3 _T	
4 RTD 7_T 5 RTD 9_T 6 RTD 11_T 7 RTD 13_T 8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B 37 RTD 14_B 38 RTD 16_B	3	RTD 5 _T	
6 RTD 11_T 7 RTD 13_T 8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 18_T 30 RTD 2_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 16_B 39 RTD 16_B 30 RTD 12_B 31 RTD 2_B 32 RTD 10_B 33 RTD 6_B	4		
7 RTD 13_T 8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	5	RTD 9 _T	
8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	6	RTD 11 _T	
8 RTD 15_T 9 RTD 17_T 10 RTD 19_T 11 RTD 1_B 12 RTD 3_B 13 RTD 5_B 14 RTD 7_B 15 RTD 9_B 16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	7	RTD 13 _T	
10 RTD 19_T 11 RTD 1 _B 12 RTD 3 _B 13 RTD 5 _B 14 RTD 7 _B 15 RTD 9 _B 16 RTD 11_B 17 RTD 13_B 18 RTD 15 _B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 14_B 39 RTD 14_B	8	RTD 15 _T	
11 RTD 1 B 12 RTD 3 B 13 RTD 5 B 14 RTD 7 B 15 RTD 9 B 16 RTD 11 B 17 RTD 13 B 18 RTD 15 B 19 RTD 17 B 20 RTD 19 B 21 RTD 2 T 22 RTD 4 T 23 RTD 6 T 24 RTD 8 T 25 RTD 10 T 26 RTD 12 T 27 RTD 14 T 28 RTD 16 T 29 RTD 18 T 30 RTD 20 T 31 RTD 2 B 32 RTD 4 B 33 RTD 6 B 34 RTD 8 B 35 RTD 10 B 36 RTD 12 B 37 RTD 14 B 38 RTD 16 B 39 RTD 16 B	9	RTD 17 _T	
12 RTD 3 _B 13 RTD 5 _B 14 RTD 7 _B 15 RTD 9 _B 16 RTD 11 _B 17 RTD 13 _B 18 RTD 15 _B 19 RTD 17 _B 20 RTD 19 _B 21 RTD 2 _T 22 RTD 4 _T 23 RTD 6 _T 24 RTD 8 _T 25 RTD 10 _T 26 RTD 12 _T 27 RTD 14 _T 28 RTD 16 _T 29 RTD 18 _T 30 RTD 2 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 6 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 16 _B 39 RTD 18 _B	10		
13 RTD 5 _B 14 RTD 7 _B 15 RTD 9 _B 16 RTD 11 _B 17 RTD 13 _B 18 RTD 15 _B 19 RTD 17 _B 20 RTD 19 _B 21 RTD 2 _T 22 RTD 4 _T 23 RTD 6 _T 24 RTD 8 _T 25 RTD 10 _T 26 RTD 12 _T 27 RTD 14 _T 28 RTD 16 _T 29 RTD 18 _T 30 RTD 20 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 6 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 16 _B 39 RTD 18 _B	11	RTD 1 _B	
14 RTD 7 _B 15 RTD 9 _B 16 RTD 11 _B 17 RTD 13 _B 18 RTD 15 _B 19 RTD 17 _B 20 RTD 19 _B 21 RTD 2 _T 22 RTD 4 _T 23 RTD 6 _T 24 RTD 8 _T 25 RTD 10 _T 26 RTD 12 _T 27 RTD 14 _T 28 RTD 16 _T 29 RTD 18 _T 30 RTD 20 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _B	12		
15 RTD 9 B 16 RTD 11 B 17 RTD 13 B 18 RTD 15 B 19 RTD 17 B 20 RTD 19 B 21 RTD 2 T 22 RTD 4 T 23 RTD 6 T 24 RTD 8 T 25 RTD 10 T 26 RTD 12 T 27 RTD 14 T 28 RTD 16 T 29 RTD 18 T 30 RTD 20 T 31 RTD 2 B 32 RTD 4 B 33 RTD 6 B 34 RTD 6 B 35 RTD 10 B 36 RTD 12 B 37 RTD 14 B 38 RTD 16 B 39 RTD 16 B	13	RTD 5 _B	
16 RTD 11_B 17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	14	_	
17 RTD 13_B 18 RTD 15_B 19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	15	RTD 9 _B	
18 RTD 15 _B 19 RTD 17 _B 20 RTD 19 _B 21 RTD 2 _T 22 RTD 4 _T 23 RTD 6 _T 24 RTD 8 _T 25 RTD 10 _T 26 RTD 12 _T 27 RTD 14 _T 28 RTD 16 _T 29 RTD 18 _T 30 RTD 20 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 14 _B 39 RTD 14 _B	16	RTD 11_B	
19 RTD 17_B 20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	17	<u> </u>	
20 RTD 19_B 21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 14_B 39 RTD 14_B 39 RTD 14_B	18	RTD 15 _B	
21 RTD 2_T 22 RTD 4_T 23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 14_B 39 RTD 14_B 39 RTD 14_B	19	RTD 17_B	
22 RTD 4 _T 23 RTD 6 _T 24 RTD 8 _T 25 RTD 10 _T 26 RTD 12 _T 27 RTD 14 _T 28 RTD 16 _T 29 RTD 18 _T 30 RTD 20 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 14 _B 39 RTD 14 _B	20	RTD 19_B	
23 RTD 6_T 24 RTD 8_T 25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 14_B 39 RTD 14_B 39 RTD 18_B	21	RTD 2 _T	
24 RTD 8 _T 25 RTD 10 _T 26 RTD 12 _T 27 RTD 14 _T 28 RTD 16 _T 29 RTD 18 _T 30 RTD 20 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 14 _B 39 RTD 18 _B	22	RTD 4 _T	
25 RTD 10_T 26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 14_B 39 RTD 18_B	23		
26 RTD 12_T 27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 2_B 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	24		
27 RTD 14_T 28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	25	RTD 10 _T	
28 RTD 16_T 29 RTD 18_T 30 RTD 20_T 31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	26	RTD 12_T	
29 RTD 18 _T 30 RTD 20 _T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _B	27	RTD 14 _T	
30 RTD 20_T 31 RTD 2 _B 32 RTD 4 _B 33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _B	28	RTD 16 _T	
31 RTD 2_B 32 RTD 4_B 33 RTD 6_B 34 RTD 8_B 35 RTD 10_B 36 RTD 12_B 37 RTD 14_B 38 RTD 16_B 39 RTD 18_B	29		
32 RTD 4 B 33 RTD 6 B 34 RTD 8 B 35 RTD 10 B 36 RTD 12 B 37 RTD 14 B 38 RTD 16 B 39 RTD 18 B	30	I .	
33 RTD 6 _B 34 RTD 8 _B 35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _ B	31		
34 RTD 8 B 35 RTD 10 B 36 RTD 12 B 37 RTD 14 B 38 RTD 16 B 39 RTD 18 B	32	RTD 4 _B	
35 RTD 10 _B 36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _B	33	RTD 6 _B	
36 RTD 12 _B 37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _ B	34	_	
37 RTD 14 _B 38 RTD 16 _B 39 RTD 18 _ B	35		
38 RTD 16 _B 39 RTD 18 _ B	36	RTD 12 _B	
39 RTD 18 _ B	37	RTD 14 _B	
	38	RTD 16 _B	
40 RTD 20_B			
	40	RTD 20_B	

				1
RTD Input Wiring	2-wire RTD Input:			
		RTDx_T =	PT1000	
		x= 120		
Electrical Pin Out – Power, CAN	1 TE Deutsch equiva	alent P/N: DTM13	-12PA	
		PIN#	Description	
		1	BATT+	
		2	CAN_H	
		3	Not Used	
		4	Not Used	
		5	Not Used	
		6	Not Used	
		7	Not Used	
		8	Not Used	
		9	Not Used	
		10	Not Used	
		11	CAN_L	
		12	BATT -	
			1	

Dimensional Drawing



Form: TDAX184200-08/09/23