

LPI15

Two Wire Signal Converter with Display USER GUIDE



DEVICE DESCRIPTION

LPI15 Model devices are designed to connect with industrial temperature sensors and convert the measurement signal to 4-20mA analog signal.

These devices can easily configurable by pc using SBA100 USB/UART converter with OTC01 program.

These devices are mounting in the temperature sensor's head (DIN form B) with screws.

Power supply and measurement signal can be transmit on the same wire. So user only need 2 wire to transmit measurement signal to long distances.

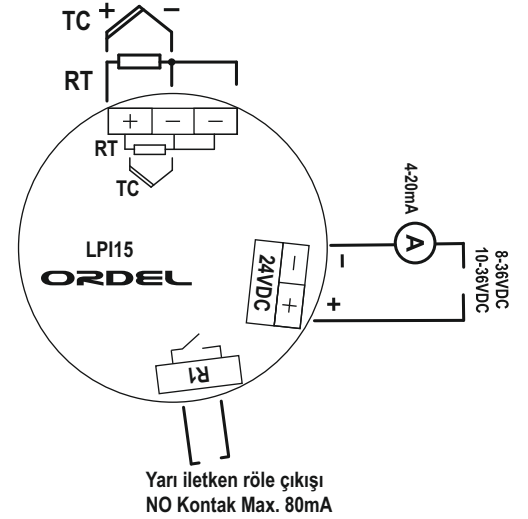
WARNINGS

- Before using the device, please read the warnings below and this guide carefully.
- The accidents and damages resulting from not following the warnings included in this guide are under user's responsibility.
- This device prepared to use by authorized personal in industrial environments. Do not use other environments like home.
- Do not use this device in the environments that contain explosive or flammable gases.
- Take the necessary precautions in order to prevent accidents and damages that may result in case the device gets faulty.
- Do not allow metal fragments or lead wire scraps or liquid matters to fall inside this device.
- Device will be out of guaranteed when it gets faulty resulted from misusages.
- Do not power up the device before the connections related with the device are performed in accordance with connection diagram. Do not touch the terminals while device is energised.
- Device should be used in the limits of that is mentioned in this guide.
- Sensor and signalling cables should not be routed close to the power cables with high current and voltage.
- Default settings must be changed by the user before using the device. Damages that because of misconfiguration is under user's responsibility.
- This device designed to be working life as 10 years.
- Do not make changes and do not try to repair the device. These operations

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CONNECTION DIAGRAM



PRODUCT CODE

LPI15 - 0

Technical Specifications

Power Supply (PS)	HMT08-0 : 8...36VDC	HMT08-1 : 10...36VDC
Analog Sensor Input	Thermocouple : B,E,J,K,L,N,R,S,T,U Resistance Thermometer : PT100	
Analog Input Impedances	Thermocouple : 10MΩ	
Analog Output	4-20mA	
Measurement Accuracy (+/-)	Thermocouple: 16µV+1°C	Resistance Thermometer : 0,3°C
Output Accuracy (+/-)	0,2 %	
Resolution	16 bit	
Galvanic Isolation	HMT08 -0 : None	HMT08 -1 : 1500VDC
Memory	10 years, 100.000 renewal	
Sampling Period	200ms	
Response Time	0,2 ... 120,0s (Programmable)	
Ambient Temperature	Working : -20...+55C	Storage: -20...+65C
Protection Class	IP00	
Dimensions	Diameter: 45 mm	Height : 20 mm
Weight	40 gr	

Sensor Type	Standart	Temperature Range	
		(°C)	(°F)
Type-B Thermocouple	IEC584-1	60, 1820	140, 3308
Type-E Thermocouple (Cr-Const)	IEC584-1	-200, 840	-328, 1544
Type-J Thermocouple (Fe-Const)	IEC584-1	-200, 1120	-328, 1562
Type-K Thermocouple (NiCr-Ni)	IEC584-1	-200, 1360	-328, 2480
Type-L Thermocouple (Fe-Const)	DIN43710	-200, 900	-328, 1652
Type-N Thermocouple (Nicrosil-	IEC584-1	-200, 1300	-328, 2372
Type-R Thermocouple	IEC584-1	-40, 1760	104, 3200
Type-S Thermocouple	IEC584-1	-40, 1760	104, 3200
Type-T Thermocouple (Cu-Const)	IEC584-1	-200, 400	-328, 752
Type-U Thermocouple (Cu-	DIN43710	-200, 600	-328, 1112
Pt-100 Resistance Termometre	IEC751	-200, 840	-328, 1544

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