



**ULTRA  
AUTOMATION**

## **UXTX01 Temperature Sensor**

### **Installation and Operation Manual**



### **Ultra Automation References**

Manual #: ..... UATX01-IOM-001

Revision Level: ..... 1

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## TECHNICAL RELEASE LOG

[illegible]

## IMPORTANT SAFETY INSTRUCTIONS

## INFORMATION



**SAVE THESE INSTRUCTIONS** - This manual contains important instructions that should be followed during the installation, operation, and maintenance of this equipment.

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# 1 Introduction

## 1.1 Scope of this Manual

This manual has been developed to guide the user in the safe installation, commissioning, and operation of the Ultra Automation Temperature Sensor. The scope of material included in this manual is limited to account only for specific operations and recommended procedures considered to be routine operations. This manual is NOT provided as a reference on mechanics, electronics, or hydraulics.

## 1.2 Operational Limitations

Due to the varying environmental conditions and the nature of equipment operation, it is impossible to account for every unknown variable. Therefore, it is requested that when situations arise outside of the scope of this publication, operators should contact Ultra Automation directly for further assistance. Ultra Automation reserves the right to make design changes without incurring any obligation for the equipment or manual previously delivered.

## 1.3 Technical Documentation

All information contained in this manual has been reviewed and approved by Ultra Automation's Engineering Team. In addition, all the information in this manual is based on the latest production information available at the time of manual release. No disclosure, distribution, or reproduction of this material may be made without prior written authorization from Ultra Automation.

## 1.4 Limited Warranty

Ultra Automation warrants that each unit sold shall, at the time of shipment (i) conform to applicable specifications and (ii) be free from defects in material and workmanship during normal and ordinary use and service (the "Warranty"). For specific client warranty information, refer to the relevant Supplier Agreement or Purchase Order (PO) for details.

## 1.5 Safety Awareness

Safety is **YOUR** responsibility and must be of primary concern. Knowing the guidelines covered in this manual will greatly improve your ability to safely install and operate this equipment. Promote good safety around the equipment and throughout all phases of operation.

## 2 Unit Description

The Ultra Automation Temperature Sensor conveniently mounts to a 35 mm Din Rail. With an output of 4-20 mA, it will seamlessly integrate into many existing PLC Control Systems.

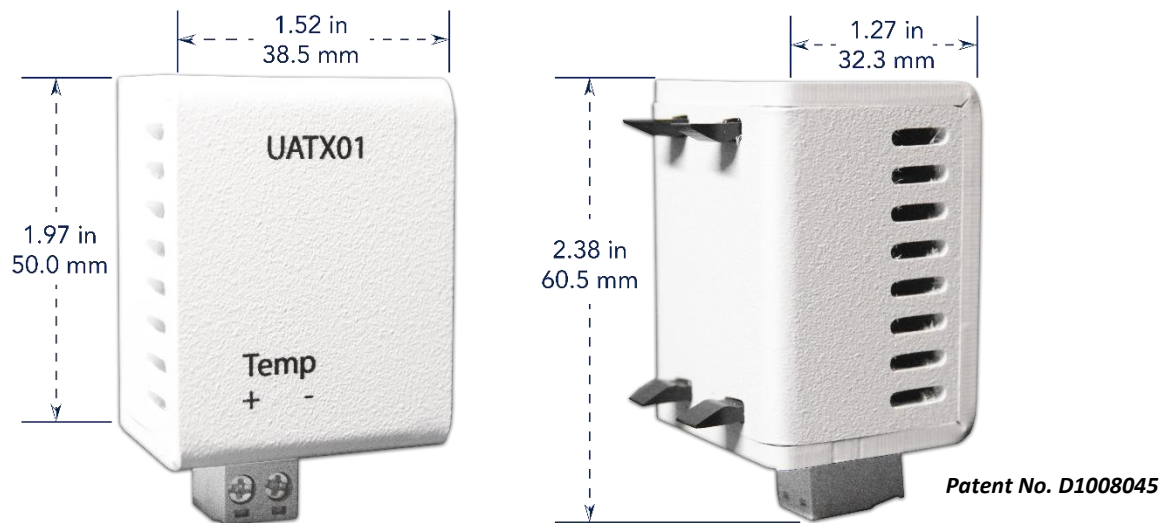


Figure 1 - Temperature Sensor with Dimensions

### 2.1 Specifications

Voltage:	24VDC
Output:	4-20mA
Operating Range:	32° - 212°F (0° - 100°C)
DIN Rail Size:	1.4 in. (35 mm)
Wire Gauge:	12 AWG - 24 AWG
Protection:	Reverse Polarity
Certification(s):	UL Process Control Equipment, E547162

### 3 Installation

The Sensor comes equipped with easy latch connector for ease of installation. Carefully press the Sensor onto the DIN Rail (35 mm) as illustrated in (Figure 3).

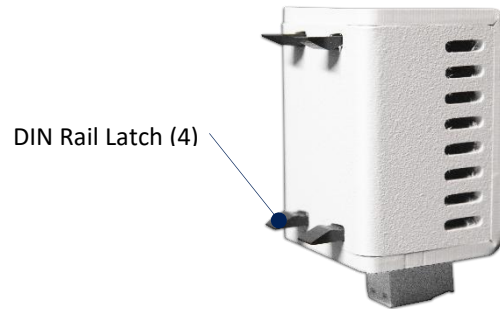


Figure 2 - Temperature Sensor Latches



Figure 3 - Temperature Sensor Installed on DIN Rail (35 mm)

#### 3.1 Connection

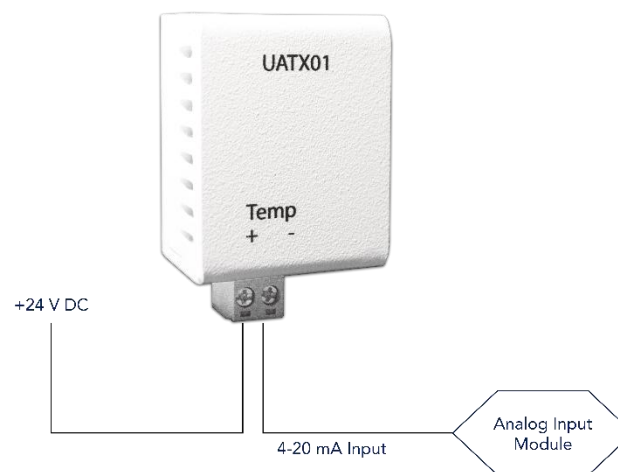


Figure 4 - Temperature Sensor Installed on DIN Rail (35 mm)

## 4 Troubleshooting

Symptom	Possible Cause	Remedy
No Current/Signal Present When Powered <b>“ON”</b>	Polarity is Reversed	Correct the Polarity
	Wiring Incorrect	Correct the Wiring
	Defective Sensor	Replace Sensor