

STT700 SmartLine Temperature Transmitter

Quick Start Installation Guide

34-TT-25-19, Revision 7, May 2023

This document provides descriptions and procedures for the Quick Installation of Honeywell's family of SmartLine Temperature Transmitters.

The STT700 is available in a variety of models for measuring Thermocouples, RTD, Millivolts and Ohm sensor types.

For full details refer to the manuals listed below for Operation, Installation, Protocol, Configuration, Calibration, Maintenance, Parts, Safety and Approvals etc. including options.

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Documentation

To access complete documentation, including language variants, scan the QR code below using your smart phone/device or QR code scanner.

Go to the APP store for your free Smartphone QR scanner

Or you can follow the URL to access the online SmartLine HUB page.

The HUB page will contain direct links to open SmartLine product documentation.

URL

<https://hwl.co/SmartLineHUB>

QR Code



Table of Contents

Installation	1
DEVICE CONFIGURATION	1
Features and Options	1
Mounting the Transmitter.....	2
Wiring Connections and Power Up	3
Wiring Variations	3
Input Sensor Wiring.....	3
Explosion-Proof Conduit Seal	4
LIGHTNING PROTECTOR	4
Appendix A. PRODUCT CERTIFICATIONS	5

Tables

Table 1: Installation considerations	1
Table 2: Mounting Dimensions	2

Figures

Figure 1 – STT700 Temperature Transmitter (HART left, DE right)	1
Figure 2 – STT700 Temperature Transmitter with display module	1
Figure 3: DIN Rail Mounting.....	2
Figure 4: Wall Mounting Dimensions	2
Figure 5: Pipe Mounting Dimensions.....	2
Figure 6: Spring Loading and Sensor Assembly	2
Figure 7: STT700 HART Transmitter Operating Ranges	3
Figure 8: STT700 DE Transmitter Operating Ranges	3
Figure 9: STT 700 Terminal connections.....	3
Figure 10: HART/DE Input Wiring Diagram for single sensor connection	3
Figure 11: Wiring Diagram for HART Dual Sensor Connections.....	3
Figure 12: Lightning Protector Dimensions.....	4
Figure 13: Installation without EU Meter.....	4
Figure 14: Installation with EU Meter.....	4
Figure 15: Installation with Standard Display	4

Installation

For start-up, operation (including configuration), maintenance and calibration refer to the STT700 Transmitter User's manual, #34-TT-25-17

Evaluate the site selected for the Transmitter installation with respect to the process system design specifications and Honeywell's published performance characteristics for your particular model. Conditions to be considered include:

Table 1: Installation considerations

Environmental Conditions:	Process Parameters
- Ambient temperature	- Temperature
- Relative Humidity	- Maximum Sensor Input Ratings
Potential Noise Sources:	Vibration Sources
- Radio Frequency Interference (RFI)	- Pumps
- Electromagnetic Interference (EMI)	- Motorized System Devices (e.g., pumps)
	- Valve Cavitation

In preparation for post-installation processes, refer to the *MC Toolkit User Manual*, Document # #34-ST-25-50 (MCT404), for battery conditioning and device operation and maintenance information.

DEVICE CONFIGURATION

This transmitter comes with a standard factory configuration. Consult the nameplate for basic information.

Reconfiguration for your particular application can be accomplished by following instructions in the Transmitter User's manual. This can be found by following the website URL or QR code on page 1 of this document.

Features and Options

As shown in **Figure 1**, the STT700 is packaged in a single module. The elements in this module are connected to the process sensors, measure the process variables, respond to setup commands and execute the software and protocol for the different temperature measurement types.



Figure 1 – STT700 Temperature Transmitter (HART left, DE right)



Figure 2 – STT700 Temperature Transmitter with display module

The transmitter measures process temperature and outputs a signal proportional to the measured process variable (PV). Available output communication protocols include 4 to 20mA, Honeywell Digitally Enhanced (DE) and HART protocols.

Mounting the Transmitter

DIN Rail Mounting

If the STT700 is to be installed on DIN Rail then the main considerations are electrical connections and mechanical fixing. Electrical connections are identical to the bench test instructions except that thermocouple wire is likely to be used with thermocouples. Mechanical fixing of the module is by means of the snap-in DIN Rail Clips which are screwed to the bottom lugs of the module.

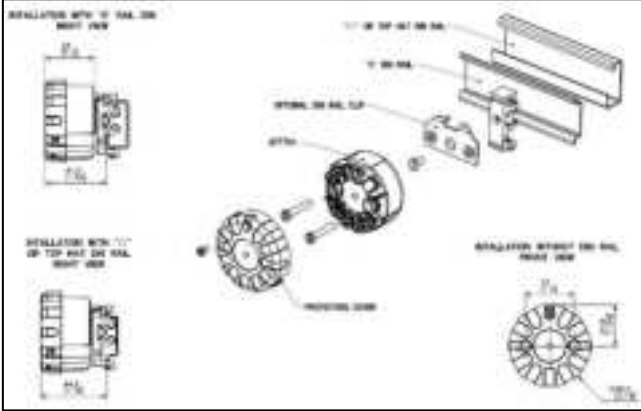


Figure 3: DIN Rail Mounting

The DIN Rail needs to be connected to Earth Ground, refer to STT700 SmartLine transmitter user's manual, #34-TT-25-17.

Uninstalling/Installing EU Meter from Housing

EU Meter:

1. Remove the EU METER from the mounting bracket.
2. Unfasten the 2 mounting screws.
3. Remove the bracket.

To put the EU meter back follow the above sequence in the reverse order.

Uninstalling/Installing Standard Display from Housing

Standard Display:

1. Loosen the bracket screws
2. Move the display in clockwise direction till the STT700 connections are exposed
3. Slide and remove the cable joint from the display panel bracket
4. Disconnect the cables from the display panel and STT700 transmitter
5. Remove the Standard Display from the bracket.

To reinstall the Standard Display reverse the above sequence.

Housing Cover and O Ring:

1. Review O-ring condition & replace, if damaged. New O-ring can be ordered from spare parts list.
2. Apply O-ring lubricant to the end cap O-ring. Relax O-ring twists, if any.

Assemble housing cover with sufficient torque for securing against IP.

Mounting Module in Housing

The STT700 module can be installed in a variety of housings suitable for direct head mounting, 2" (50mm) pipe mounting or wall mounting.

Table 2: Mounting Dimensions

Dimensions	Aluminum (field mount housing)	
	A	B
Without integral meter	70 mm [2.76 inch]	120,8 mm [4.76 inch]
With integral meter	127 mm [5.00 inch]	210,8 mm [8.30 inch]

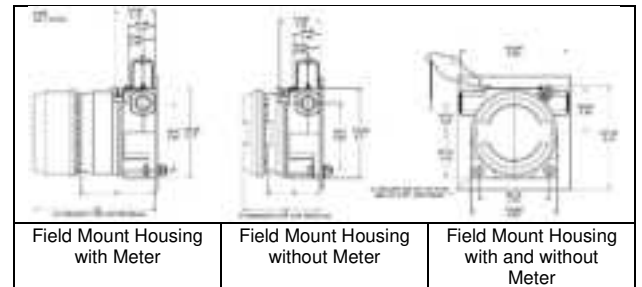


Figure 4: Wall Mounting Dimensions

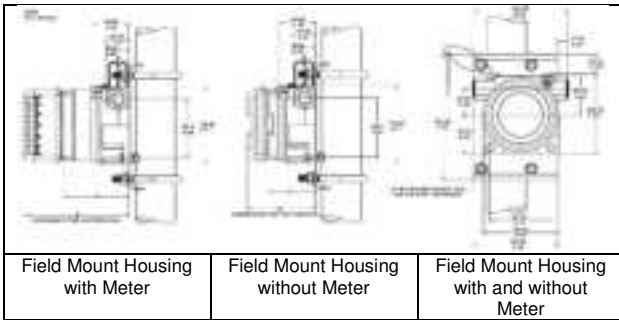


Figure 5: Pipe Mounting Dimensions

Spring Loading

Spring loading is available worldwide with direct head mounting. In North America, the spring loading is typically included in the sensor/thermowell assembly and is available with all housings. For non-North American spring loading as shown in Figure 6, simply include the springs under the 33 mm pitch mounting screws, pass the screws through the module and sensor mounting plate and snap in the retaining circlip to the screws to hold the assembly together. Guide the sensor assembly through the housing sensor entry and screw down the 33 mm screws until the limit is reached as the sensor presses against the bottom of thermowell.

For wall or 2" pipe mounting, the temperature sensor can be remote from the STT700 field mount housing or integral to the housing. For remote installations, the sensor wiring should be run in shielded, twisted pair wiring and connected via one of the housing wiring entries. For explosionproof/flameproof installations, ensure that the cable entries are fitted with flameproof adaptors and that the wiring grade complies with local standards.

For more details on wiring and dimensions for Aluminum Direct head and Cast iron Direct head refer to STT700 SmartLine transmitter user's manual, #34-TT-25-17.

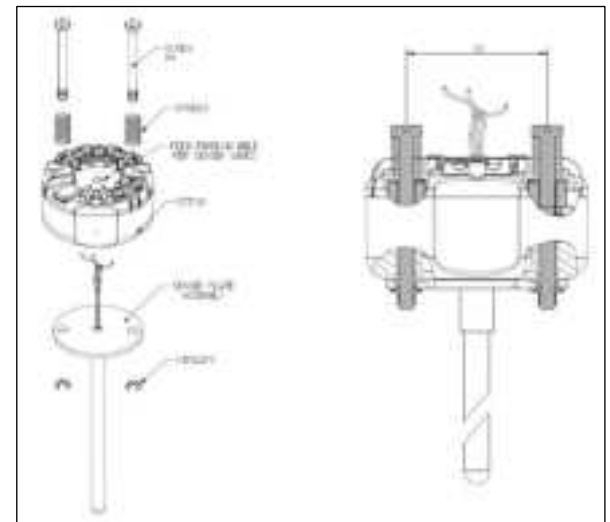


Figure 6: Spring Loading and Sensor Assembly

Wiring Connections and Power Up

Summary

The transmitter is designed to operate in a two-wire power/current loop with loop resistance and power supply voltage within the HART and DE operating ranges shown in [Figure 7](#).

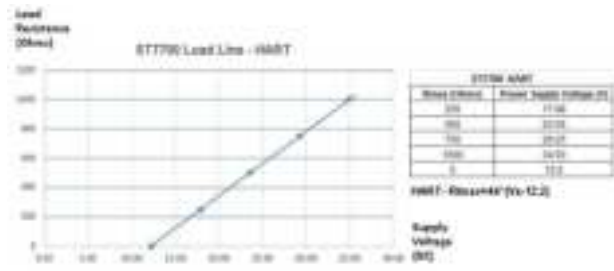


Figure 7: STT700 HART Transmitter Operating Ranges

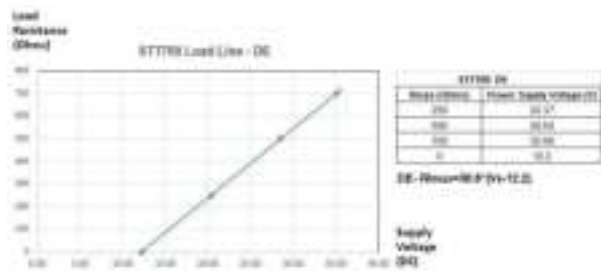


Figure 8: STT700 DE Transmitter Operating Ranges

Loop wiring is connected to the transmitter by simply attaching the positive (+) and negative (-) loop wires to the positive (+) and negative (-) terminals on the transmitter terminal block in the electronics housing shown in [Figure 9](#). Route the wires through the pre-molded channels on the connector cap. Connect the loop power wiring shield to earth ground only at the power supply end. Note that loop-power for this transmitter is not polarity-sensitive.

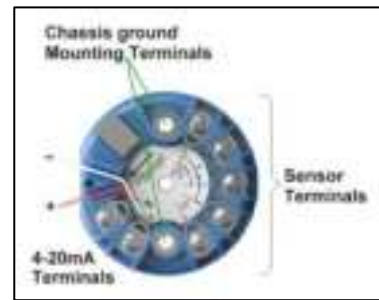


Figure 9: STT 700 Terminal connections

This transmitter uses the two mounting screws to connect it to earth ground. Grounding the transmitter for proper operation is required, as doing so tends to minimize the possible effects of noise on the output signal and affords protection against lightning and static discharge. An optional lightning protection module is available for use in areas that are highly susceptible to lightning strikes. As noted above, the loop power wiring shield should only be connected to earth ground at the power supply end.



Wiring must comply with local codes, regulations and ordinances. Grounding may be required to meet various approval body certification, for example CE conformity. Refer to the [STT700 SmartLine Transmitter User's Manual 34-TT-25-17](#) for details

For HART and DE the transmitter is designed to operate in a two-wire power/current loop with loop resistance and power supply voltage within the operating range; see [Figure 9](#). With an optional remote meter, the voltage drop for this must be added to the basic power supply voltage requirements to determine the required transmitter voltage (VXMTR) and maximum loop resistance (RLOOP MAX). Additional consideration is required when selecting intrinsic safety barriers to ensure that they will supply at least minimum transmitter voltage (VXMTR MIN), including the required 250 ohms of resistance (typically within the barriers) needed for digital communications.

Wiring Variations

The above procedures are used to connect power to a transmitter. For loop wiring and external wiring, detailed drawings are provided for transmitter installation in non-intrinsically safe areas and for intrinsically safe loops in hazardous area locations.

This procedure shows the steps for connecting power to the transmitter.

The screw terminals suitable for wirings up to (16AWG)

- Shielded, twisted-pair cable such as Belden 9318 or equivalent must be used for all signal/power wiring.

Note: If solid core wire is used strip insulation 1/4 in (6 mm). Once inserted under the square washer the stripped portion should be contained under the square washer. If multi-stranded wire is used, a ferrule is to be used and the stripped wire should be in the insulated portion of the ferrule. The ferrule can be also be used on the solid core wire.

- The cable shield must be connected at only one end of the cable. Connect it to the power supply side and leave the shield insulated at the transmitter side.

After wiring the Transmitter as outline in the next sections, torque the screws to 1.1 Nm (10 lb-in)

Grounding and Lightning Protection

Connect a wire from the mounting screws to earth ground to make the protection effective. Use a size 8 AWG or (8.37mm²) bare or green covered wire for this connection. For ungrounded thermocouple, mV, RTD or ohm inputs, connect the input wiring shield(s) to the same earth ground connection. For grounded thermocouple inputs, connect the internal ground connection shown in [Figure 9](#) to the same earth ground as used by the thermocouple. As noted above, the loop power wiring shield should only be connected to earth ground at the power supply end.

For DE, the burnout direction needs to be selected in the hardware and this will be detected at power on time.

Input Sensor Wiring

Connect the input sensors as shown in [Figure 10](#) below: RTD Thermocouple, mV, Ohm and Millivolt connections.

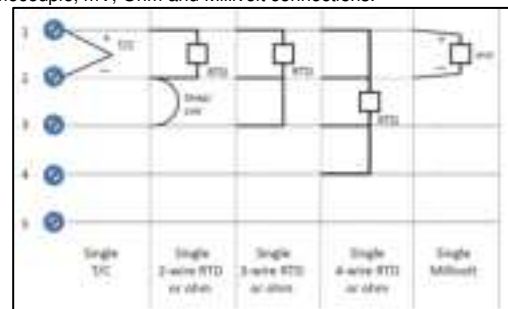


Figure 10: HART/DE Input Wiring Diagram for single sensor connection

The single sensor connections can also be used on a dual input transmitter when a second input is not required. In this case, it is recommended that the second input be configured to none in software. In case of RTD type being configured to 4-wire, this is automatically done.

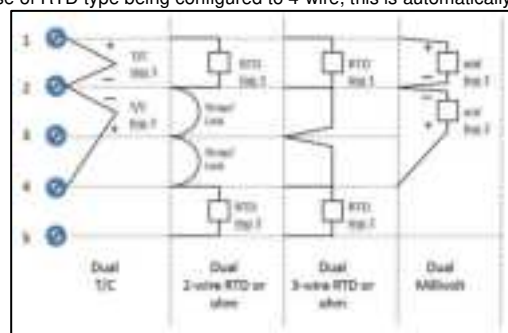


Figure 11: Wiring Diagram for HART Dual Sensor Connections

Explosion-Proof Conduit Seal



When installed as explosion proof in a Division 1 Hazardous Location, keep covers tight while the Transmitter is energized. Disconnect power to the Transmitter in the non-hazardous area prior to removing end caps for service.

When installed as non-incendive equipment in a Division 2 hazardous location, disconnect power to the Transmitter in the non-hazardous area, or determine that the location is non-hazardous before disconnecting or connecting the Transmitter wires.

Transmitters installed as explosion proof in Class I, Division 1, Group A Hazardous (classified) locations in accordance with ANSI/NFPA 70, the US National Electrical Code, require a LISTED explosion proof seal to be installed in the conduit, within 18 inches (457.2 mm) of the transmitter.

LIGHTNING PROTECTOR

This device is designed to give the SmartLine temperature transmitter maximum protection against surges such as those generated by lightning strikes. The lightning protector mounts right on the top of the STT700 terminal block, providing easy field wiring and also protection for the EU meter if used. For more details refer to STT700 SmartLine temperature transmitter user's manual, #34-TT-25-17.

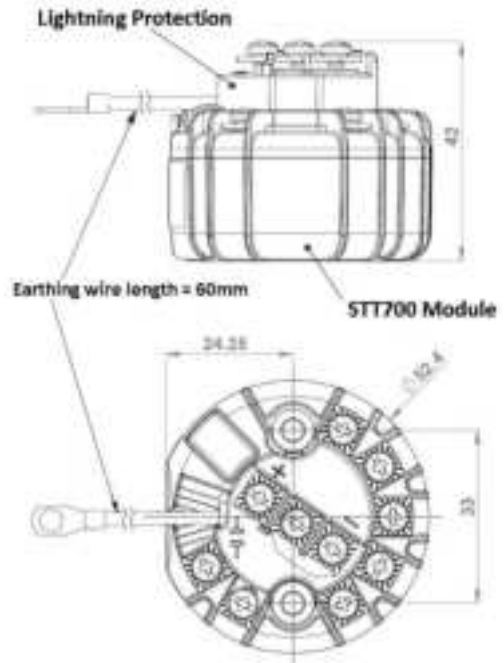


Figure 12: Lightning Protector Dimensions

Installation

- If an EU meter is used, remove the shunt on the Lightning Protector. In all other cases, the shunt must be present.
- If Standard Display is used, no need to remove the shunt.
- Remove the cover/cap of the housing (if applicable). The device fits on the top of the transmitter module terminal block and the transmitter output screws (+ and -) fix mechanically the device.
- If Standard Display is used, remove the cover of the housing and connect the display cable to the 8-Pin connector provided on the transmitter.
- Attach the grounding wire to the ground screw in the housing. Connect a wire from the transmitter enclosure to local earth ground. Use size 14 AWG or 2.0mm² bare or green covered wire.
- If an EU meter is used, wire according to Figure 14
- If Standard Display is used, wire according to Figure 15.
- Connect the 4 – 20mA loop to the + and – terminal screws of the surge protection and close the cap of the housing.

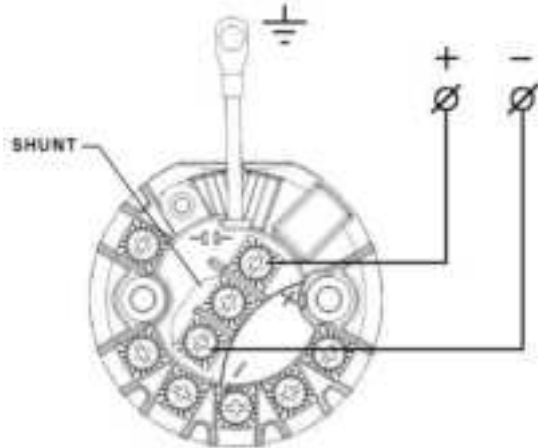


Figure 13: Installation without EU Meter

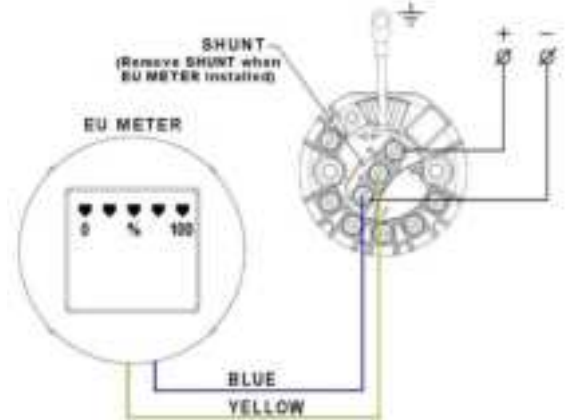


Figure 14: Installation with EU Meter

For start-up, operation (including configuration), maintenance and calibration refer to the STT700 Transmitter User's manual, #34-TT-25-17

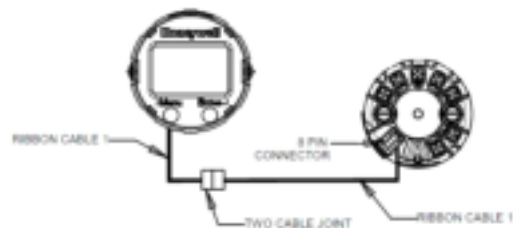


Figure 15: Installation with Standard Display

Appendix A. PRODUCT CERTIFICATIONS

A1. Safety Instrumented Systems (SIS) Installations

For Safety Certified Installations, please refer to STT700 Safety Manual #34-TT-25-05 for installation procedure and system requirements.

A2. China RoHS

China RoHS compliance information is located here: (Pending)
<https://www.honeywellprocess.com/library/support/Public/Documents/50136434.pdf>

A3. European Directive Information (EU)



CE **Honeywell**

APPV-STT700-CE Revision: E

EU DECLARATION OF CONFORMITY

We, **Honeywell International Inc.**
 Honeywell Field Solutions
 352 Virginia Drive
 Fort Washington, PA 19034 USA

Declare under our sole responsibility that the following product:
STT 700 – Smart Series Temperature Transmitter with and without Integral Meter

to which this declaration refers, is in conformity with the provisions of the European Community Directives, including the latest amendments, as shown in the attached schedule.

Assessment of conformity is based on the application of the harmonized standards and where applicable or required, a European Community notified body certification, as shown in the attached schedule.

The authorized signatory for this declaration, on behalf of the manufacturer, and the Responsible Person is identified below.


Dawn J. Murphy
 Product Safety & Approvals Engineering
 Fort Worth 34 January 2022
 Fort Washington, PA 19034, USA

Honeywell

SCHEDULE
APPV-STT700-CE Revision: E

EMC Directive (2014/53/EU)

EN 61326-1:2012 Electrical Equipment for Measurement, Control and Laboratory Use – EMC Requirements

Overview of EMC Testing

Summary of Tests Performed

TEST	STANDARD	CRITERIA (IEC 61326-1)	CRITERIA (IEC 61326-1)	RESULTS	
Emissions	Substrate Emission	EN 61326-1	Group 1, Class A 30 - 100 MHz: 40 dB 100 - 1000 MHz: 47 dB	Group 1, Class A 30 - 100 MHz: 40 dB 100 - 1000 MHz: 47 dB	PASS
	EIS Immunity	IEC 61000-4-1	+/- 100 Counts +/- 100 Hz	+/- 100 Counts +/- 100 Hz	PASS
	EM Field - E1 Substrate Immunity	IEC 61000-4-1	10 V/m - 30 V/m for 100 kHz 10 V/m - 10 V/m for 100 kHz 10 V/m - 10 V/m for 100 kHz	10 V/m - 30 V/m for 100 kHz 10 V/m - 10 V/m for 100 kHz 10 V/m - 10 V/m for 100 kHz	PASS
	RF Field & Magnetic Field Immunity	IEC 61000-4-1	30 A/m	30 A/m	PASS
	E120 Immunity	IEC 61000-4-1	+/- 100	+/- 100	PASS
DC Power	Surge Immunity	IEC 61000-4-1	+/- 100	+/- 100	PASS
	RF Conducted Susceptibility	IEC 61000-4-1	30	IEC 61000-4-1 10 V - 30 V for 100 kHz 10 V - 10 V for 100 kHz 10 V - 10 V for 100 kHz 10 V - 10 V for 100 kHz 10 V - 10 V for 100 kHz	PASS
E120 (Surge) Immunity	Surge Immunity	IEC 61000-4-1	+/- 100	+/- 100	0
	RF Conducted Susceptibility	IEC 61000-4-1	30	IEC 61000-4-1 10 V - 30 V for 100 kHz 10 V - 30 V for 100 kHz	0

3 of 3

Honeywell

SCHEDULE
APPV-STT700-CE Revision: E

PORT	TEST	STANDARD	CRITERIA (IEC 61326-1)	CRITERIA (IEC 61326-1)	RESULTS
AC Power	Voltage Dip	IEC 61000-4-11	0% during 1 Cycle 40% during 10-12 Cycles 70% during 25-30 Cycles	10 V - 11.11 V 13.33 V 10 V - 26.67 V 17.78 V 10 V - 40.00 to 40.70 V	PASS
	Short Interruptions	IEC 61000-4-11	0% during 250-300 Cycles		PASS
	EFT (Surge) Immunity	IEC 61000-4-4	20V		PASS
	Surge Immunity	IEC 61000-4-5	100/20V		PASS
	RF Conducted Susceptibility	IEC 61000-4-1	3V		PASS

- There is no magnetic sensitive circuitry.
- Done as part of the DC Power Testing.
- Product is DC Powered.



A4. Hazardous Locations Certifications

AGENCY	MSG Code	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
FM Approvals™ (USA)	F1	Intrinsically Safe Certificate: FM17US0112X Class I, Division 1, Groups A, B, C, D; T6.. T4 Class I Zone 0 AEx ia IIC T6.. T4 Ga	Note 2	T6: -40°C to +40°C T5: -40°C to +55°C T4: -40°C to +70°C
		Non-Incendive and Zone 2 Intrinsically Safe Certificate: FM17US0112X Class I, Division 2, Groups A, B, C, D; T6..T4 Class I Zone 2 AEx ec IIC T6..T4 Gc Class I Zone 2 AEx ic IIC T6..T4 Gc	Note 1 Note 2 for "ic"	T6: -40°C to +40°C T5: -40°C to +55°C T4: -40°C to +85°C
	F2	Intrinsically Safe Certificate: FM17US0112X Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1: T6..T4 Class I Zone 0 AEx ia IIC T6.. T4 Ga	Note 2	T6: -40°C to +40°C T5: -40°C to +55°C T4: -40°C to +70°C
		Explosion proof Certificate: FM17US0112X Class I, Division 1, Groups A, B, C, D; T6..T5 Class 1, Zone 1, AEx db IIC T6..T5 Gb	Note 1	T6: -40°C to +65°C T5: -40°C to +85°C
		Dust-Ignition proof Class II, Division 1, Groups E, F, G; T5 Zone 21, AEx tb IIIC T95°C Db		
		Non-Incendive and Zone 2 Intrinsically Safe Certificate: FM17US0112X Class I, Division 2, Groups A, B, C, D; T6..T4 Class I Zone 2 AEx ec IIC T6.. T4 Gc Class I Zone 2 AEx ic IIC T6.. T4 Gc	Note 1	T6: -40°C to +40°C T5: -40°C to +55°C T4: -40°C to +85°C
		Enclosure	TYPE 4X/ IP66	
Standards : FM 3600:2018; ANSI/ UL 60079-0: 2013 FM 3615 : 2018; ANSI/ UL 60079-1: 2015 ; FM 3610:2018; ANSI/ UL 60079-11 : 2014 FM 3810 : 2018 ; FM 3611:2018; ANSI/ UL 60079-7 : 2017				

AGENCY	MSG Code	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
CSA-Canada and USA	C1	Intrinsically Safe Certificate: 70113941 Class I, Division 1, Groups A, B, C, D; T4 Class I Zone 0 AEx ia IIC T4 Ga Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Non-Incendive and Zone 2 Intrinsically Safe Certificate: 70113941 Class I, Division 2, Groups A, B, C, D; T6.. T4 Class I Zone 2 AEx ic IIC T4 Gc Ex ic IIC T4 Gc Class I Zone 2 AEx nA IIC T4 Gc Ex nA IIC T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +85°C
	C2	Explosion proof Certificate: 70113941 Class I, Division 1, Groups A, B, C, D; T6..T5 Ex db IIC T6..T5 Gb Class 1, Zone 1, AEx db IIC T6..T5 Gb	Note 1	T6: -40°C to +65°C T95°C/T5: -40°C to +85°C
		Dust-Ignition Proof: Class II, III, Division 1, Groups E, F, G; T5 Ex tb IIIC T 95°C Db Zone 21 AEx tb IIIC T 95°C Db		
		Intrinsically Safe Certificate: 70113941 Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4 Class I Zone 0 AEx ia IIC T6..T4 Ga Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Non-Incendive and Zone 2 Intrinsically Safe Certificate: 70113941 Class I, Division 2, Groups A, B, C, D; T4 Class I Zone 2 AEx nA IIC T4 Gc Ex nA IIC T4 Gc Class I Zone 2 AEx ic IIC T4 Gc Ex ic IIC T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +85°C
Enclosure: Type 4X/ IP66/ IP67				

Standards: CSA C22.2 No. 0-10: 2015; CSA 22.2 No. 25: 2017; CSA C22.2 No. 30-M1986 (reaffirmed 2016); CSA C22.2 No. 94.2:2015; CSA C22.2 No. 61010-1: 2012; CSA-C22.2No.157-92 (reaffirmed 2016); C22.2 No. 213: 2016; C22.2 No. 60529:2016; C22.2 No. CSA 60079-0:2015; C22.2 No. 60079-1: 2016; C22.2 No. 60079-11: 2014; C22.2 No. 60079-15: 2016; C22.2 No. 60079-31: 2015; ANSI/ ISA 12.12.01 : 2015 ; FM 3600: 2011 ; ANSI/ UL 61010-1 : 2016; ANSI/ UL 60079-0: 2013 ; FM 3616 : 2011; FM 3615 : 2011; ANSI/ UL 60079-1: 2015 ; ANSI/ UL 60079-31: 2015; ANSI/ UL 60079-11 : 2014; FM 3611: 2016; ANSI/ UL 60079-15 : 2013 ; ANSI/ UL 913: Edition 7; ANSI/ UL 50E: 2015

AGENCY	MSG Code	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
ATEX	A1	Intrinsically Safe Certificate: SIRA 17ATE2162X II 1 G Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Non Sparking and Zone 2 Intrinsically Safe Certificate: SIRA 17ATE4161X II 3 G Ex ec IIC T4 Gc II 3 G Ex ic IIC T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +70°C
		Flameproof Certificate: SIRA 17ATE2162X II 2 G Ex db IIC T6..T5 Gb II 2 D Ex tb IIIC T 95°C Db	Note 1	T6: -40°C to +65°C T95°C/T5:-40°C to +85°C
	A2	Intrinsically Safe Certificate: SIRA 17ATE2162X II 1 G Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Category 3 Increased Safety Intrinsically Safe Certificate: SIRA 17ATE4161X II 3 G Ex ec IIC T4 Gc II 3 G Ex ic IIC T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +85°C
		Enclosure: IP66/ IP67 Standards : EN 60079-0: 2012+A11 : 2013; EN 60079-1 : 2014 ; EN 60079-11: 2012 ; EN 60079-7 : 2015 ; EN 60079-31 : 2014		

AGENCY	MSG Code	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
IECEX	E1	Intrinsically Safe Certificate: SIR 17.0035X Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Non Sparking, Zone 2 Intrinsically Safe Certificate: SIR 17.0035X Ex ec IIC T4 Gc Ex ic IIC T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +85°C
	E2	Flameproof Certificate: SIR 17.0035X Ex db IIC T6..T5 Gb Ex tb IIIC T95°C Db	Note 1	T6: -40°C to +65°C T95°C/T5:-40°C to +85°C
		Intrinsically Safe Certificate: SIR 17.0035X Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Zone 2- Increased Safety and Intrinsically Safe Certificate: SIR 17.0035X Ex ec IIC T4 Gc Ex ic IIC T4 Gc	Note 2	T4: -40°C to +85°C
		Enclosure: IP66/ IP67 Standards: IEC 60079-0: 2011; IEC 60079-1 : 2014; IEC 60079-11 : 2011; IEC 60079-31 : 2014; IEC 60079-7 : 2015		

AGENCY	MSG Code	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
CCoE INDIA	P1	Intrinsically Safe Certificate: P417399/1 Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
	P2	Flameproof Certificate: P417399/1 Ex db IIC T6..T5 Gb	Note 1	T6: -40°C to +65°C T5: -40°C to +85°C
		Intrinsically Safe Certificate: P417399/1 Ex ia IIC T4 Ga Enclosure: IP66/ IP67	Note 2	T4: -40°C to +70°C
NEPSI (China)	N1	Intrinsically Safe Certificate: GYJ18.1420X Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Non Sparking, Zone 2 Intrinsically Safe Certificate: GYJ18.1420X Ex ec IIC T6..T4 Gc Ex ic IIC T6..T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +85°C
	N2	Flameproof Certificate: GYJ18.1420X Ex db IIC T6..T5 Gb Ex tD A21 IP6X T80 °C/ T95°C	Note 1	T6: -40°C to +65°C T95°C/T5: -40°C to +85°C
		Intrinsically Safe Certificate: GYJ18.1420X Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Zone 2 Intrinsically Safe Certificate: GYJ18.1420X Ex ic IIC T4 Gc Enclosure: IP66/ IP67	Note 2	T4: -40°C to +85°C

AGENCY	MSG Code	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
SAEx South Africa	S1	Intrinsically Safe Certificate: XPL 18.0865X Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Non Sparking, Zone 2 Intrinsically Safe Certificate: XPL 18.0865X Ex ec IIC T4 Gc Ex ic IIC T4 Gc	Note 1 Note 2 for "ic"	T4: -40°C to +85°C
	S2	Flameproof Certificate: XPL 18.0865X Ex db IIC T6..T5 Gb Ex tb IIIC T 95°C Db	Note 1	T6: -40°C to +65°C T95°C/T5: -40°C to +85°C
		Intrinsically Safe Certificate: XPL 18.0865X Ex ia IIC T4 Ga	Note 2	T4: -40°C to +70°C
		Zone 2 Intrinsically Safe Certificate: XPL 18.0865X Ex ic IIC T4 Gc Enclosure: IP66/ IP67	Note 2	T4: -40°C to +85°C

Notes
1. Operating Parameters:
4-20 mA/HART (Loop Terminal) - Voltage= 10.58 to 35 V, Current = 4-20 mA Normal (3.8 – 21.5 mA Faults)
2. Intrinsically Safe Entity Parameters
For details see Control Drawing

A.5 WARNINGS and Cautions:

Intrinsically Safe and Non-Incendive Equipment:

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN HAZARDOUS LOCATIONS.

Explosion-Proof/ Flameproof:

WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

Non-Incendive Equipment:

WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAYBE PRESENT

All Protective Measures:

WARNING: FOR CONNECTION IN AMBIENTS ABOVE 60°C USE WIRE RATED 105°C

A.6 Conditions of Use” for Ex Equipment”, Hazardous Location Equipment or “Schedule of Limitations”:

The installer shall provide transient over-voltage protection external to the equipment such that the voltage at the supply terminal of the equipment does not exceed 140% of the voltage rating of the equipment.

Intrinsically Safe: Must be installed per drawing 50133855

Division 2: This equipment is suitable for use in a Class I, Division 2, Groups A, B, C, D; T4 or Non-Hazardous Locations Only.

Transmitter only Selection:

For US Installations: The transmitter is to be installed within an enclosure with a minimum degree of protection of IP54 in accordance with ANSI/ISA 60079-15 and in a tool-secured enclosure which meets the requirements of ANSI/ISA 60079-0 and ANSI/ISA 60079-15 and the ultimate application.

For ATEX or IECEx: The transmitter is to be installed within an enclosure with a minimum degree of protection of IP54 in accordance with EN/ IEC 60079-7 and in a tool-secured enclosure which meets the requirements of EN/ IEC 60079-0 and EN/ IEC 60079-15 and the ultimate application.

Transmitter in Enclosure Selections:

Consult the manufacturer for dimensional information on the flameproof joints for repair.

Painted surface of the Aluminum Enclosure may store electrostatic charge and become a source of ignition in applications with a low relative humidity less than approximately 30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust or oil. Cleaning of the painted surface should only be done with a damp cloth.

The enclosure is manufactured from low copper aluminum alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during Installation, particularly if equipment is installed a Zone 0 location.

If a charge-generating mechanism is present, the exposed metallic part on the enclosure is capable of storing a level of electrostatic that could become Incendive for IIC gases. Therefore, the user/ installer shall implement precautions to prevent the buildup of electrostatic charge, e.g. earthing the metallic part. This is particularly important if equipment is installed a Zone 0 location.

For Installation of the NPT Plug or Adapter follow instructions as outlined in 34-XY-33-03.

A.7 Control Drawing

STT700 Temperature Transmitter, ANALOG, and HART/DE Communications

1. Intrinsically safe installation shall be in accordance with:
 a. FM 3000 (Intrinsic Safe) Approval 500 and 501
 b. CSA (Canada) Transmitter Division 2 (D2) Part 1, section 10
 c. IEC (Europe) Requirements of EN 60079-14, 11, 12 and EN 60079-15
 d. IEC (Europe) Requirements of EN 60079-14, 11, 12 and EN 60079-15

2. EMI/RFI approval equipment shall be installed in accordance with the manufacturer's instructions unless otherwise specified.

3. The intrinsic safety (IS) concept shall be the responsibility of the user. Approved intrinsically safe devices with EMI/RFI performance not specifically approved for installation in a hazardous location.

4. System Safety Requirements:
 STT700 Transmitter: Class II, Div 2, Groups A, B, C, D; T4 or Non-Hazardous Locations
 STT700 Transmitter: Class I, Division 2, Groups A, B, C, D; T4 or Non-Hazardous Locations

5. When the electrical parameters of the cables are unknown, the following values may be used:
 Capacitance: 50 pF/m (150 pF/ft)
 Inductance: 0.05 μH/m (0.15 μH/ft)

6. External equipment shall be connected to the STT700 Transmitter in accordance with the manufacturer's instructions. Associated equipment shall be installed in a Class I, Division 2 or Class II, Division 2 location unless otherwise specified.

7. Non-hazardous, certified equipment (grounded from the enclosure) may be connected to a certified ground electrode per:
 a. FM 3000 (Intrinsic Safe) Approval 500 and 501. The resistance of the ground path must not be less than 1.0 ohm.
 b. CSA (Canada) Transmitter Division 2 (D2) Part 1, section 10
 c. IEC (Europe) Requirements of EN 60079-14, 11, 12, 15
 d. IEC (Europe) Requirements of EN 60079-14, 11, 12, 15

8. Intrinsically safe equipment (Class I, Division 2 or Class II, Division 2) shall be installed in accordance with the manufacturer's instructions.

9. Grounding shall be in accordance with the manufacturer's instructions.

10. For more information on this product, please refer to the manufacturer's literature.

11. For more information on this product, please refer to the manufacturer's literature.

12. For more information on this product, please refer to the manufacturer's literature.

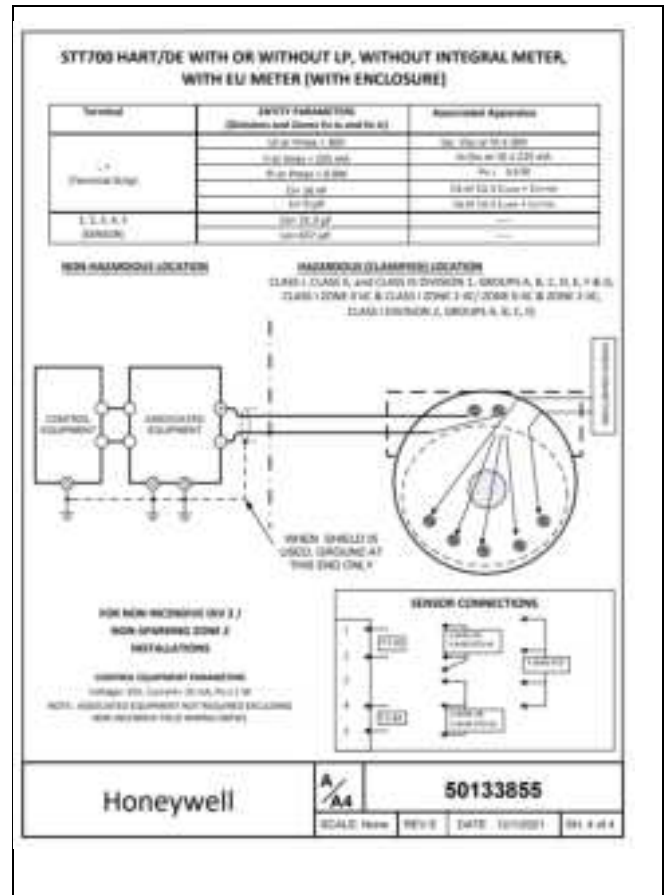
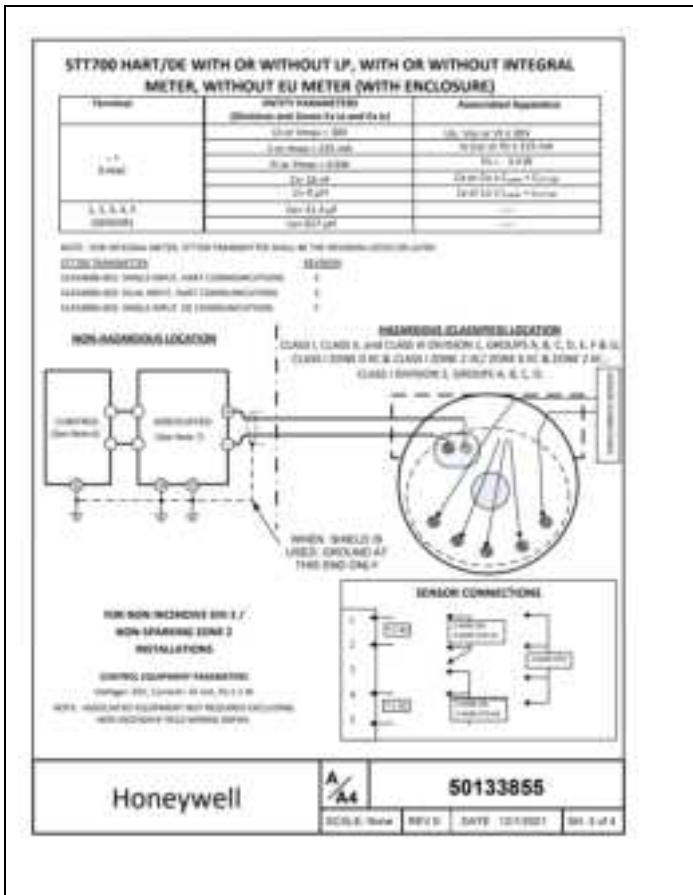
Honeywell
 CONTROL DRAWING
 STT700 SERIES TEMP TRANSMITTER
 DIVISIONS 1 & 2 / ZONE 0 & 2

50133855

SCALE: None USED ON SHEET 1 OF 4

STT700 HART/DE WITHOUT IP, WITHOUT INTEGRAL METER OR EU METER (WITHOUT ENCLOSURE)

Parameter	STT700 MANUFACTURER'S SPECIFICATIONS AND NOTES FOR USE IN EX	Associated Equipment		
Supply Voltage	12-24 VDC ± 5%	See Table 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 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414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 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233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	See



Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

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 or (TAC) hfs-tac-support@honeywell.com
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34-TT-25-19 Rev.7
 May 2023
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