IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx LCI 08.0033X	issue No.:1	Certificate history: Issue No. 1 (2010-10-20) Issue No. 0 (2008-9-2)
Status:	**Current**		
Date of Issue:	**2010-10-20**	Page 1 of 5	

Applicant: **HONEYWELL Automation India Ltd.**
56 & 57 Hadapsar Industrial Estate
Pune, 411013
India

Electrical Apparatus: **Temperature transmitter**
Optional accessory:

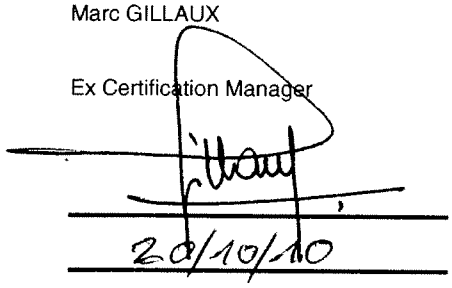
Type of Protection: **'Dust and Flameproof enclosure' or 'intrinsic safety'**

Marking:
HONEYWELL Automation India Ltd.
Address :
Type : STT3000, Model STT 25...
LCI 08.0033 X
For Dust and flameproof application :
Ex tD A21 IP6X T80°C (Ta = -50°C to +80°C)
Ex tD A21 IP6X T95°C (Ta = -50°C to +85°C)
Ex d IIC T6 (Ta = -50°C to +80°C)
Ex d IIC T5 (Ta = -50°C to +85°C)
WARNING – DO NOT OPEN WHEN ENERGIZED
For intrinsic safety application:
Ex ia IIC T6 (Ta = -50°C to +40°C)
Ex ia IIC T5 (Ta = -50°C to +55°C)
Ex ia IIC T4 (Ta = -50°C to +85°C)
Ui..., Ii..., Pi..., Ci..., Li...,
Uo... ,Io..., Co..., Lo...
completed with the intrinsic safety parameters.

Approved for issue on behalf of the IECEx Certification Body: Marc GILLAUX

Position: Ex Certification Manager

Signature:
(for printed version)



Date: 20/10/10

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France

L C I E

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Date of Issue: **2010-10-20** Issue No.: **1**

Manufacturer: **HONEYWELL Automation India Ltd.**
56 & 57 Hadapsar Industrial Estate
Pune, 411013
India

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/LCI/ExTR08.0038/00
FR/LCI/ExTR10.0038/00

Quality Assessment Report:
NL/KEM/QAR07.0010/00

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

Temperature is measured with an external sensor (thermocouple or resistor (RTD) sensor). The transmitter output is a 4-20 mA signal via the two-wire field connections. Letter designations in the model number specify the communications protocol :

STT25M	4 – 20 mA output
STT25H	HART5 protocol and 4 – 20 mA output
STT25S	HART6 protocol and 4 – 20 mA output
STT25D	digital DE/4 – 20 mA output
STT25T	Dual input HART protocol/4 – 20 mA output

The process variable can be observed locally with the ME, SM or EU indicators (when compatible with the communications protocol) installed in the metal enclosure.The transmitter module is encapsulated in a plastic housing that is stable up to 130°C (intrinsically safe model only). The transmitter module may also be installed in a flameproof stainless steel or aluminum housing. The aluminum alloy contains < 6% magnesium. The equipment can be fitted with an indicator type ME (analog), SM (digital); or EU (Electronic Unit).

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient operating temperature : -50°C to +85°C

For the intrinsic safety model :

- The temperarture transmitter is an intrinsically safe apparatus ; it can be placed in potentially explosive atmosphere.
- Connection of the equipment :
  - the power terminal blocks (+ and -) shall only be connected to a certified associated intrinsically safe equipment.
  - the sensor entry terminal blocks (1, 2, 3 and 4) shall only be connected to a certified intrinsically safe equipment.
  These combinations shall be compatible regarding the intrinsic safety rules.
- Electrical parameters at the input sensor terminal blocks (1, 2,3 and 4) :
  U_0 = 10,5V ; I_0 = 40 mA ; C_0 = 2,08 µF, L_0 = 20 mH
- The aluminium enclosure shall be protected against any impact or friction to be used in zone 0 (according to IEC 60079-0 requirements)

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Components modifications.
Modifications of printed circuits.
Update of documents.

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Additional information:

- Electrical parameters at the power terminal blocks (+ and -) :
  Ui = 30V ; Ii = 165 mA ; Pi = 1,2 mW

	Li	Ci
without indicator	0 µH	17 nF
with indicator ME	150 µH	17 nF
with indicator SM or EU	0 µH	17 nF