



Certificate of Compliance

Certificate: 2562773

Master Contract: 256478

Project: 2562773

Date Issued: February 22, 2013

Issued to: Deeter Engineering Services Limited

Deeter House
Valley Road
Hughenden Valley
High Wycombe, BU HP14 4LW
GB
Attention: Trevor Green

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Ron Wildish

Issued by: Ron Wildish

PRODUCTS

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -
Certified to US Standards

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div 1, Groups B, C & D; Class II, Div 1, Groups E, F & G; Class III, Div. 1:

Ex d IIC T3/4/5 Gb:

AEx d IIC T3/4/5 Gb:

AEx tb IIIC T200/135/100°C Db IP 66/68:

Type 4X; IP66/68:

Model LVCS AFP series level sensors; rated 0 to 2v output, 7 to 25Vdc input @ 25mA; 0 to 4v output, 7 to 25Vdc input @ 25mA; 0 to 10v output, 14 to 28Vdc input @35mA; 4-20 mA Standard output, 15 to 28 Vdc,



Tel: +44 (0)191 490 1547
Fax: +44 (0)191 477 5371
Email: northernsales@thorneandderrick.co.uk
Website: www.heatracing.co.uk
www.thorneandderrick.co.uk



Certificate: 2562773

Master Contract: 256478

Project: 2562773

Date Issued: February 22, 2013

25 mA; 4-20 mA loop powered output from 17 to 25 V current loop; MWP of 3.1MPa (450 psi); Head ambient range of -20 to +85°C; Process temperatures to +180°C; Temp. Code T5 @ Ta/Process temperature to 85°C; Temp. Code T4 @ Ta/Process temperature to 125°C; Temp. Code T3 @ Ta/Process temperature to 180°C.

Nomenclature

LVCS AFP □□□□□□

The 6 digit number is sequential only and relates to an associated drawing number.

Note: Model LVCS AFP is Certified for Installation Category I.

Model F/S AFP series level sensors; rated 0-50 Vdc, 1.0 Amps; 0-120Vac 50/60 Hz, 0.5 Amp; MWP of 3.1MPa (450 psi); Head ambient range of -20 to +85°C; Process temperatures to +190°C; Temp. Code T5 @ Ta/Process temperature to 85°C; Temp. Code T4 @ Ta/Process temperature to 125°C; Temp. Code T3 @ Ta/Process temperature to 190°C

Nomenclature

F/S AFP □□□□□□

The 6 digit number is sequential only and relates to an associated drawing number.

Note: Model F/S AFP is Certified for Installation Category II.

APPLICABLE REQUIREMENTS

Canadian Requirements

CAN/CSA Standard C22.2 No. 0-10 General Requirements - Canadian Electrical Code, Part II

CSA C22.2 No. 25-M1966 Enclosures for Use in Class H Groups E, F, and G Hazardous Locations

CSA C22.2 No. 30-M1986 Explosion-Proof Enclosures for Use in Class I Hazardous Locations - Industrial Products

CAN/CSA-C22.2 No. 94-M91 Special Purpose Enclosures

CAN/CSA-C22.2 No. 61010-1-04 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

CAN/CSA-C22.2 No. 60079-0:07 Electrical apparatus for explosive gas atmospheres – Part 0: General requirements

CAN/CSA-C22.2 No. 60079-1:07 Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosures "d"

CAN/CSA-C22.2 No. 60529:05 Degrees of protection provided by enclosures (IP Code)



Certificate: 2562773

Master Contract: 256478

Project: 2562773

Date Issued: February 22, 2013

US Requirements

FM 3600-1998 Electric Equipment for use in Hazardous (Classified) Locations General Requirements

FM 3615-2006 Explosionproof Electrical Equipment - General Requirements

ISA S82.02.01 2nd (IEC 61010-1 Mod) (2nd Ed.) Safety Standards for Electrical and Electronic Test, Measuring, Controlling and Related Equipment - General Requirements.

ANSI/ISA-60079-0 (12.00.01)-2009 Explosive atmospheres – Part 0: Equipment – General Requirements

ANSI/ISA-60079-1 (12.22.01)-2009 Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures “d”

ANSI/ISA-60079-31 (12.10.03)-2009 Explosive Atmospheres – Part 31: Equipment Dust Protection by Enclosure “t”

UL 50 (11th Ed.) Enclosures for Electrical Equipment

ANSI/IEC 60529-2004 Degrees of protection provided by enclosures (IP Code)

The following standard(s) were used in whole or in part as a guideline.

ANSI/NEMA 250-2008 Enclosures for Electrical Equipment (1000 Volts Maximum)



Tel: +44 (0)191 490 1547
Fax: +44 (0)191 477 5371
Email: northersales@thorneandderrick.co.uk
Website: www.heattracing.co.uk
www.thorneandderrick.co.uk