

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

EXA SC202S-ab. Conductivity Transmitter.

IS / I / 1 / ABCD / T6 Ta = 40°C; T4 Ta = 55°C – FF1-SC202S-00, pages 3, 7 and 8 of 10; FISCO/Entity;
 Type 4X/IP65

Entity Parameters:

SC202S-A		SC202S-F		SC202-P
	ENTITY	ENTITY	FISCO	ENTITY
Input	Terminals +/- Orange	Terminals +/-Green	Terminals +/-Green	Terminals +/-Green
Vmax	31.5V	24V	17.5V	24V
I _{max}	100mA	250mA	380mA	250mA
Pi	1.2W	1.2W	5.32W	1.2W
Li	22nF	737pF	737pF	737pF
Ci	22µH	2.6µH	2.6µH	2.6µH

NI / I / 2 / ABCD / T6 Ta = 40°C; T4 Ta = 55°C - FF1-SC202S-00, pages 4, 9 and 10 of 10; Field
 Parameters; Type 4X/IP65

	SC202S-N	SC202S-B	SC202-D
Input	Terminals +/- Orange	Terminals +/- Green	Terminals +/- Green
Vmax	31.5V	32V	32V
I _{max}	4-20mA		
Ci	22nF	737pF	737pF
Li	22µH	2.6µH	2.6µH

a = A (Intrinsically Safe, 4-20mA & Hart), B (Non-incendive, Foundation Fieldbus), F (Intrinsically Safe, Foundation Fieldbus), N (Non-incendive, 4-20mA & Hart), D (Non-incendive, Profibus PA version) or P (Intrinsic safety, Profibus PA version).

b = Options with no relevant impact on the type of the explosion protection, (e.g. calibration, software options, temperature compensation etc.).

Equipment Ratings:



Evaluated as Intrinsically Safe with FISCO/Entity parameters for use in Class I, Division 1, Groups ABCD in accordance with manufacturer's Control Drawing no. FF1-SC202S-00, pages 3, 7 and 8 of 10;
Nonincendive for Class I, Division 2, Groups ABCD in accordance with manufacturer's Control Drawing no. FF1-SC202S-00, pages 4, 9 and 10 of 10 hazardous (classified) locations.

Approved for:

Yokogawa Europe B.V.
Databankweg 20, 3821 AL, Amersfoort, The Netherlands



This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	1999
Class 3810 Suppl. # 1	1995
NEMA-250	1991

Original Project ID: 3018026

FM Approval Granted: Dec. 10, 2003

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
041021	<i>Jan. 6, 2005</i>		

FM Global Technologies LLC

Robert L. Martell, Jr.
Assistant Vice President
FM Approvals

Jan 6, 2005
Date