

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

CPC3a-Obcdefghi. System.

NI / I / 2 / ABCD / T4 Ta = 50°C; DIP / II, III / 1 / EFG / T4 Ta = 50°C;
AIS / I, II, III / 1 / ABCDEFG -136708, 136623; Entity; I / 1 / [AEx ia] / IIC 136620; Entity;
Type 4

Entity Parameter: Refer to control drawing for specified values.

a = Type: 0 or 00.

b = Control for external valve: 0, 2, or 4.

c = Measurement Input: 1 or 2.

d = Measurement output: A, C, or E.

e = Power supply: 0 or 8.

f = Language versions: A or B.

g = Cable connection: 0, 1, 2, 3, or 4.

h = Multi-connector tube: 0 or 8.

i = Additional/ Special features: 0.

CPC3a-Pbcdefghi. System.

NI / I / 2 / ABCD / T4 Ta = 50°C; I / 2 / IIC / T4 Ta = 50°C;

DIP / II, III / 1 / EFG / T4 Ta = 50°C;

ANI / I, II, III / 2 / ABCDEFG -136708, 136623; NI Field wiring;

[I / 2] / IIC / T4 Ta = 50°C; NI Field wiring; Type 4

NI Field Wiring Parameter: Refer to control drawing for specified values.

a = Type: 0 or 00.

b = Control for external valve: 0, 2, or 4.

c = Measurement Input: 1 or 2.

d = Measurement output: A, C, or E.

e = Power supply: 0 or 8.

f = Language versions: A or B.

g = Cable connection: 0, 1, 2, 3, or 4.

h = Multi-connector tube: 0 or 8.

i = Additional/ Special features: 0.

Equipment Ratings

System examination of the TopClean S CPC 30-O/-P Cleaning system and TopCal S CPC 300-O/-P Cleaning and Calibration system as a Nonincendive system for Class I, Division 2, Groups A, B, C & D; dust-ignition proof for Class II and III, Division 1, Groups E, F & G; alternatively as a Nonincendive system for Class I, Zone 2, Group IIC indoor/ outdoor hazardous (classified) locations, utilizing Type 4X enclosure; Nonincendive field wiring for Class I, II, III, Division 2, Groups A, B, C, D, F & G and Class I, Zone 2, Group IIC; intrinsically safe connections for Class I, II, III, Division 1, Group A, B, C, D, E, F & G and for Class I, Zone 1, Group IIC hazardous (classified) locations, in accordance with Control Drawings 136623 or 136708 utilizing Type 4 enclosure and a temperature class of T4 @ Ta = 50°C. Also Intrinsically Safe sensors for use in Class I, Division 1, Groups A, B, C, & D hazardous (classified) locations. The system was also examined for Division 2, FISCO application (henceforth know as FNICO), in accordance with Control Drawing 136626.

Approved for:

Endress+Hauser Conducta
Dieselstrasse 24
D-70839 Gerlingen,
Germany

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

Class 3600	1998
Class 3810	1989
Class 3611	1999
Class 3610	1999

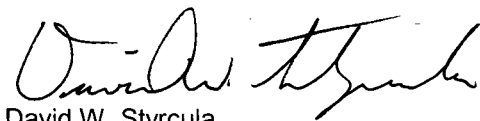
Original Project ID: 3016177

FM Approval Granted December 9, 2003

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
---------------	------	---------------	------

FM Global Technologies LLC



David W. Styracula
Technical Team Manager

12/9/03
Date

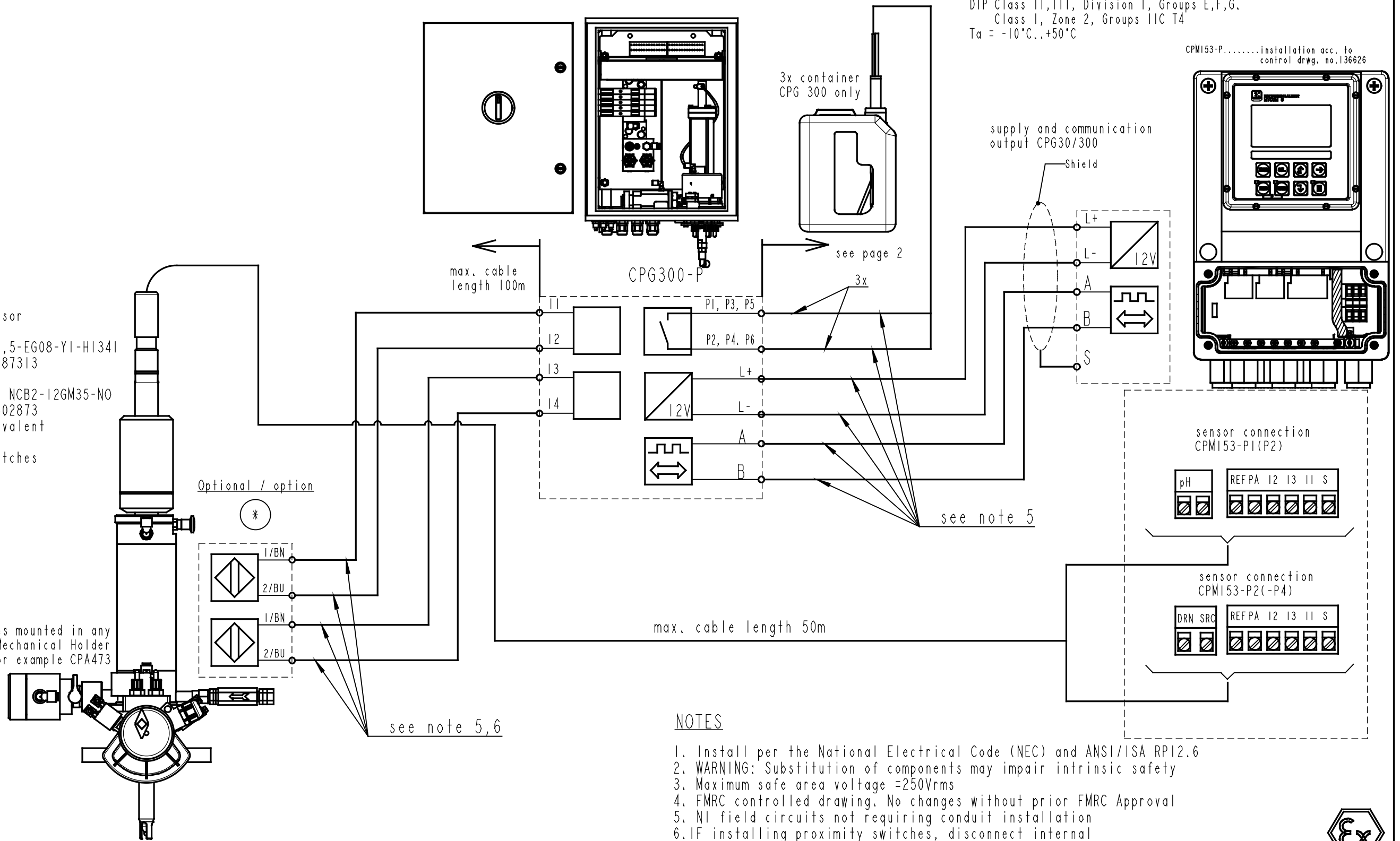
HAZARDOUS LOCATION
 NI Class I, Division 2, Groups A,B,C,D.
 DIP Class II,III, Division 1, Groups E,F,G.
 Class I, Zone 2, Groups IIC T4
 Ta = -10°C...+50°C

CPI153-P.....installation acc. to
 control drwg. no.136626

* Proximity sensor
 FM Approved
 TURCK No. BI1,5-EG08-Y1-H1341
 Order no. 50087313
 or
 PEPPERL+FUCHS NCB2-12GM35-NO
 Order no. 51502873
 or other equivalent
 FM Approved
 proximity switches

Optional / option

Note: Probes mounted in any
 Pneumatic/Mechanical Holder
 as shown for example CPA473



NOTES

1. Install per the National Electrical Code (NEC) and ANSI/ISA RPI2.6
2. WARNING: Substitution of components may impair intrinsic safety
3. Maximum safe area voltage =250Vrms
4. FMRC controlled drawing. No changes without prior FMRC Approval
5. NI field circuits not requiring conduit installation
6. IF installing proximity switches, disconnect internal pressure switches



CTSI
 CPS11/12/13
 CPS41/42
 CPS71/72
 CPS91
 CPF81-...A.
 CPF81-...C.
 CPF82-...A.
 or other simple
 apparatus approved
 by FM

CPS441 / CPS471 / CPS491
 (IsFET-pH-Sensor)

Maximum Parameters Cable including probe	
Maximum external capacity Co	50nF
Maximum external inductivity Lo	100µH

Maximum Parameters Cable including probe	
Maximum external capacity Co	150nF
Maximum external inductivity Lo	100µH

						USED FORMAT: 0414 - 3A	
		Datum	Name	Werkstoffe		Halbzeug	
		Bearb.	08.10.02	Si			
		Geprüft	19.12.02	Ha	Oberfläche		Teilgewicht
Freimaßtoleranz: DIN ISO 2768 - mittel				Maßstab	Zng.-Nr.	136623	
ENDRESS+HÄUSER CONDUCTA Dieselstraße 24 Postfach 10 01 54 D-70839 Gerlingen Telefon 07156/209-0 Telefax 07156/28158				Control drawing CPC30/CPC300-P External Connection			
Ind.	Änderung	Datum	Bearb.	Gepr.	Verwendung:	CPC30/CPC300 page 1 / 2	

