

British Approvals Service for Electrical
Equipment in Flammable Atmospheres



Certificate of Conformity - Variation

SUPPLEMENTARY CERTIFICATE BAS No. Ex 96D2494/5

This is to certify that Apparatus Certificate number:

Ex 96D2494

held by:

ROSEMOUNT ANALYTICAL INC

of:

2400 Barranca Parkway, Irvine, California 92714-5018, USA

for the:

pH/ORP TRANSMITTER MODEL 3081

is hereby extended to apply to the apparatus designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

File No: EECS 0911/02/015

BASEEFA Certification Report No. 99(C)0632 dated 31 March 2000

Sheet 1 of 3

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances. Representation of equipment as "Certified" is valid only when the number of the prime certificate to which this certificate is a supplement is given on the relevant EECS Manufacturing Licence or Verification Certificate.



**I M CLEARE
DIRECTOR**

9 May 2000



Registration Number
020
The use of the Accreditation
Mark indicates accreditation in
respect of those activities
covered by the accreditation
certificate number 020.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244

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Schedule

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Load Parameters

The Capacitance and the Inductance of the load at the sensor terminals must not exceed the following values:

GROUP	CAPACITANCE in μ F	INDUCTANCE in mH
IIC	0.83	0.8
IIB	5.2	2.4
IIA	18.9	6.4

DRAWINGS

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
1700316	C	11.2.99	4081pH/ORP/FG Approval Drawing
2400351 Sheets 1 and 2	B	6.25.99	4081 CPU Schematic
23817-00/02, -04 Sheets 1 & 2	B	6.25.99	4081 CPU PCB Assembly
33668-00	A	6.22.99	4081 CPU PCB Details
33668-00	A	5.17.99	4081 CPU PCB Top Layer
33668-00	A	5.17.99	4081 CPU PCB Ground Plane
33668-00	A	5.17.99	4081 CPU PCB +5V Plane
33668-00	A	5.17.99	4081 CPU PCB Bottom Layer
2400348 Sheets 1 & 2	A	2.19.99	4081 Analog Schematic
23577-01	A	2.19.99	4081 Analog PCB Assembly
70014-00 Sheets 1 to 8	B	5.25.99	PCB, Fieldbus Output
23832-00/-01	A	6.22.99	PCB, Fieldbus Output Mod 4081
9080144 Sheets 1 and 2	A	2.19.99	Transformer, 4081 CPU

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VARIATION FIVE

To permit a new CPU board and a new Foundation Fieldbus output board along with the replacement of D11 on the analog board by a wire link, thus forming the new models 4081pH/ORP and 4081FG. The model 4081pH/ORP and the model 4081FG differ only in software.

The models 4081pH/ORP and 4081FG have a temperature classification of T4 ($T_{amb} = 60^{\circ}\text{C}$).

Input Parameters

Terminal TB1 connections 14, 15

$$U_i = 30\text{V}$$

$$I_i = 300\text{ mA}$$

$$P_i = 1.3\text{W}$$

The above parameters must be derived from a linear supply (resistive output).

Output Parameters

Terminal TB1 connections 1 to 13

$$U_o = 13.44\text{V}$$

$$I_o = 170\text{mA}$$

$$P_o = 0.6\text{W}$$

$$C_i = 0.012\mu\text{F}$$