

Safety Instructions for Vertical Controls

(FM and CSA Explosion-proof)

Models Covered:

B*****E5*****

D*****E5*****

X*****E5*****

B*****E6*****

D*****E6*****

X*****E6*****



Vertical Controls

Instructions specific to hazardous-area installations

Model numbers covered:

B****E5*****, D****E5*****, X****E5*****, B****E6*****, D****E6*****, X****E6*****

("*" indicates options in construction, function and materials).

The following instructions apply to equipment covered by FM Approval 3047282 and CSA listing:

1. Installation of this equipment shall be carried out by suitably trained personnel, in accordance with the applicable code of practice.
2. Inspection and maintenance of this equipment shall be carried out by suitably trained personnel, in accordance with the applicable code of practice.
3. No maintenance or repair of the flameproof enclosure is permitted.
4. The enclosure must not be opened when the equipment is electrically energised. Where Line Monitoring Resistors are fitted, allow **four minutes** after isolation before removing cover.
5. The certification of this equipment relies upon the following materials used in its construction:

Housing and Cover: Stainless Steel 316 Type, or Aluminium Alloy LM25, LM24, B85 grade 360, or Cast Iron grade 250, or Gunmetal LG2.

Pressure Tube and Union (Partition wall): Carbon Steel 220M07, or Stainless Steel 316, 321, 304, or UNS N10276, or UNS N04400, or UNS N06625, or UNS N08825.

If the equipment is likely to come into contact with aggressive substances, it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

Aggressive substances: e.g. acidic liquids or gases that may attack metals or solvents that may affect polymeric materials.

Suitable precautions: e.g. regular checks as part of routine inspections or establishing from the material's data sheet that it is resistant to specific chemicals.

Note: The metallic alloy used for the enclosure material may be at the accessible surface of this equipment; in the event of rare accidents, ignition sources due to impact and friction sparks could occur.

6. It is the responsibility of the user to ensure:
 - (a) The voltage and current limits for this equipment are not exceeded.
 - (b) That only suitably certified cable entry devices will be utilised when connecting this equipment.
 - (c) That suitable temperature rated cable is used. Note: The cable entry temperature may exceed 70 °C.
 - (d) That any unused cable entries are sealed with suitably certified stopping plugs.
 - (e) The joint requirements between the switch housing and vessel are compatible with the process media.
 - (f) The joint tightness is correct for the joint material used.
 - (g) The float is protected from impact or friction, or electrostatic charging from fast flowing non-conductive fluids that could generate an ignition source.

Vertical Controls

The Emerson logo is a trade mark and service mark of Emerson Electric Co.

Mobrey is a registered trademark of Rosemount Measurement Ltd.

All other marks are the property of their respective owners.

We reserve the right to modify or improve the designs or specifications of product and services at any time without notice.

© 2014 Rosemount Measurement Ltd. All rights reserved.

International:

**Emerson Process Management
Rosemount Measurement Ltd.**

158 Edinburgh Avenue
Slough, Berks, SL1 4UE, UK
Tel +44 (0)1753 756600
Fax +44 (0)1753 823589
www.emersonprocess.com

Americas:

**Emerson Process Management
Rosemount Inc.**

8200 Market Boulevard
Chanhassen, MN 55317 USA
Tel (USA) 1 800 999 9307
Tel (International) +1 952 906 8888
Fax +1 952 906 8889