

FM Approvals
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October 9, 2013

Werner Bertges
R Stahl HMI Systems GmbH
Im Gewerbegebiet Pesch 14
Cologne, D50767
Germany

Customer ID: 1000007463-1
Subject: 3610:2010 Recertification for 375 Field Communicator, 375 Battery Pack
Supplements Project ID: 3015876
Project ID: 3046291

Dear Mr. Bertges,

This letter serves as the Final Report for the review and processing of your company's 3610 Re-Certification for the subject equipment. The 375 Field Communicator and 375 Battery Pack Approved under Project ID 3015876 is recertified with the issuance of this final letter report. Re-certification is in accordance with *FM Approval Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, Division 1, Hazardous (Classified) Locations*, Class Number 3610, January 2010.

The examination was based on a review of the documents in the Critical Document List, the previous examination and IECEx Test Report DE/BVS/ExTR06.0019/02, BVS Technical Record BVSPS25981 and Test Report BVSPS22036. The only items requiring further review were that the equipment contains batteries and that the equipment has a non-metallic enclosure. These items are satisfactorily covered as described in BVS reports and no further test or examination is required.

The manufacturer has stated that the NiMH battery option is no longer available. The product will be updated in the Approval Guide, an on-line resource of FM Approvals, as follows with all changes highlighted, deletions shown with strikethrough:

Hazardous Location Equipment - United States Communications Accessories Handheld

Fisher-Rosemount Systems Incorporated
12001 Technology Dr, Eden Prairie, Minnesota 55344, USA

375a b c E d e f g h. Field Communicator. 375. Battery Pack.
IS / I / 1 / ABCD / T4 Ta = 50°C - 00375-1130; Entity; FISCO
I / 0 / AEx ia / IIC / T4 Ta = 50°C - 00375-1130; Entity

Entity Parameters:

$V_{Max} = 30 \text{ V}$, $I_{Max} = 200 \text{ mA}$, $P_i = 1 \text{ W}$, $C_i = 0$, $L_i = 0$.



Fieldbus Entity Parameters:

$V_{Max} = 30 \text{ V}$, $I_{Max} = 380 \text{ mA}$, $P_i = 1.3 \text{ W}$, $C_i = 0$, $L_i = 0$.

FISCO Parameters:

$V_{Max} = 17.5 \text{ V}$, $I_{Max} = 215 \text{ mA}$, $P_i = 1.9 \text{ W}$, $C_i = 0$, $L_i = 0$ for Groups IIC;

$V_{Max} = 17.5 \text{ V}$, $I_{Max} = 380 \text{ mA}$, $P_i = 5.4 \text{ W}$, $C_i = 0$, $L_i = 0$ for Group IIB.

Output Field Terminals Parameters:

$V_{oc} = 1.9 \text{ V}$, $I_{sc} = 32 \text{ } \mu\text{A}$, $P_o = 61 \text{ } \mu\text{W}$, $C_a = 100 \text{ mF}$, $L_a = 5600 \text{ mH}$.

a = Communication Protocol: H or F.

b = Battery type: R (NiMH) or P (Li-Ion).

c = Power Supply Charger: 1 or 9.

d = Product Certifications: KL.

e = Easy Upgrade: U or 9.

f = Spare Battery Pack: ~~B (NiMH)~~-A (LI-Ion) or None.

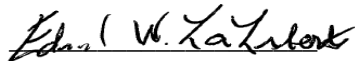
g = Configuration Expansion Module: C or None.

h = Graphics: G or None.

The 375 Field Communicator and 375 Battery Pack under Project ID 3015876 as described above is recertified with the issuance of this final letter report. Re-certification is in accordance with *FM Approval Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations*, Class Number 3610, January 2010.

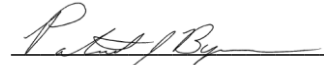
Conclusion: This Report concludes this re-certification Project ID 3015876.

Examined by:



Edmond W. LaLiberte
Senior Engineer
Hazardous Locations

Reviewed by:



Patrick J. Byrne
Technical Team Manager
Hazardous Locations