



ATEX II 3 G

1 ATEX documentation for ancillary components used with the PAC8000 Zone 2 System

2 **Document number GE8000 Issue 1**

3 The I/O modules, power supplies, Bus Interface Modules and Railbus Isolator used in the PAC8000 2/2 and 2/1 I/O systems, intended for mounting in Zone 2, are manufacturer-certified by GE Intelligent Platforms as Category 3 equipment in accordance with the ATEX Directive. Ancillary components used for interconnection of these pieces of apparatus have not been separately certified because they have no autonomous function. These components include module carriers, carrier extenders, extender cables and field terminals, as listed in the table below. Such interconnections are not covered by the 94/9/EC Directive because they are not 'capable of causing an explosion through their own potential sources of ignition'. This requirement is stated in Article 1 clause 3(a) of the Directive. A similar argument supports the use of "simple apparatus" in intrinsically safe systems and permits the use of uncertified cables in power systems. Hence the use of non-certified ancillary components in Zone 2 is not without precedent.

4 Declaration relating to;

Field Terminals

8601-FT-NI	Field terminal, non-incendive
8602-FT-ST	Field terminal, standard
8603-FT-FU	Field terminal, non-incendive, fused
8604-FT-FU	Field terminal, standard, fused
8605-FT-TC	Field terminal, thermocouple
8606-FT-RT	Field terminal, RTD
8607-FT-TC	Field terminal, 8-channel with thermocouple
8608-FT-NI	Field terminal, non-incendive, 8-channel
8610-FT-NA	Field terminal, non-arcing
8611-FT-FU	Field terminal, non-arcing, fused
8612-FT-NA	Field terminal, non-arcing, 16-channel, block isolated
8615-FT-4W	Field terminal, 4-wire transmitter
8616-FT-FU	Fused Mass Termination Assembly, 16-pin
8617-FT-NI	Field terminal, 16-channel
8618-FT-MT	Mass Termination Assembly, 16-pin
8619-FT-MT	Mass Termination Assembly, 44-pin
8620-FT-MT	Mass Termination Assembly
8621-FT-IS	IS field terminal, standard
8622-FT-IS	IS field terminal, loop-disconnect
8623-FT-IS	IS field terminal, 16-channel DI
8624-FT-IS	IS field terminal, 8-channel DI, loop disconnect
8625-FT-IS	IS field terminal, THC
8626-FT-IS	IS field terminal, RTD

Carriers

8707-CA-08	Carrier, 8 module
8709-CA-08	Carrier, 8 module with earth bar, 64-address system
8710-CA-04	Carrier, 4 module
8720-CA-04	IS Carrier, 4 module
8727-CA-08	IS Carrier, 8 module
8723-CA-RB	Carrier, Railbus Isolator
8725-CA-RB	Carrier, Railbus Isolator
8724-CA-PS	Carrier, IS module power supply
8729-CA-08	IS Carrier, 8 module, 64-address system
8711-CA-NS	Node Services Carrier, screw terminal LAN
8712-CA-NS	Node Services Carrier, Profibus-DP
8715-CA-BI	Carrier, universal BIM
8716-CA-NS	Node Services Carrier
8717-CA-PS	Carrier, power supply (for 8910-PS-DC)
8718-CA-NS	BIM + Node Services Module Carrier
8750-CA-NS	Carrier, redundant AXE + PFM

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Carrier Extenders

8020-CE-RH	Carrier extender, Right-hand
8021-CE-LH	Carrier extender, Left-hand
8030-CE-RH	IS Carrier extender, Right-hand
8031-CE-LH	IS Carrier extender, Left-hand

Cable assemblies

8001-CC-35	Carrier extension cable, 0.35m
8002-CC-85	Carrier extension cable, 0.85m
8003-CC-12	Carrier extension cable, 1.2m
8004-CC-20	Carrier extension cable, 2.0m
8005-CC-xxx	Carrier extension cable, various lengths
8041-CC-35	Carrier extension cable, 0.35m (right-angle cable entry)
8042-CC-85	Carrier extension cable, 0.85m (right-angle cable entry)
8043-CC-12	Carrier extension cable, 1.2m (right-angle cable entry)
8044-CC-20	Carrier extension cable, 2.0m (right-angle cable entry)
8045-CC-xxx	Carrier extension cable, various lengths (right-angle cable entry)
8010-CC-xxx	IS Carrier extension cable, various lengths
8011-CC-35	IS Carrier extension cable, 0.35m
8012-CC-85	IS Carrier extension cable, 0.85m
8013-CC-12	IS Carrier extension cable, 1.2m
8014-CC-20	IS Carrier extension cable, 2.0m
8015-CC-xxx	IS Power extension cable, various lengths
8016-CC-35	IS Power extension cable, 0.35m
8017-CC-85	IS Power extension cable, 0.85m
8018-CC-12	IS Power extension cable, 1.2m
8019-CC-20	IS Power extension cable, 2.0m
8080-FC-10	16-way cable for 8618-FT-MT (1m)
8081-FC-20	16-way cable for 8618-FT-MT (2m)
8082-FC-30	16-way cable for 8618-FT-MT (3m)
8085-FC-10	20 & 24-way cables for 8619-FT-MT (1m)
8086-FC-20	20 & 24-way cables for 8619-FT-MT (2m)
8087-FC-30	20 & 24-way cables for 8619-FT-MT (3m)

5 Assessed and Manufactured by: GE Intelligent Platforms, 2500 Austin Drive, Charlottesville, VA 22911, USA

6 This apparatus meets the requirements for Group II, Category 3 G equipment in accordance with Directive 94/9/EC by complying with the relevant parts of EN 60079-15:2005 and EN 60079-15:2010. These relevant parts concern creepage and clearance distances, the construction of terminals and the current carrying capacity of tracks. Where products were initially assessed for compliance with the ATEX Directive using earlier harmonised standards, a subsequent review has determined that "technical knowledge" is unaffected by the current harmonised standards listed above.

7 The apparatus is designed to be installed and used in accordance with EN 60079-14:2008.

8 Manufacture is controlled by an ISO9001:2008 approved system, and is externally audited by CSA and FM.

10 The ambient temperature range for the apparatus is -40°C to $+70^{\circ}\text{C}$.

11 The standards published in the Official Journal of the European Commission with reference to the Low Voltage Directive 2006/95/EC have been used to fulfil 1.2.7 of Annex II of directive 94/9/EC to eliminate electrical risks.

Dr A Jawad.....
PAC8000 Engineering Manager, GE Intelligent Platforms Europe SA

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