

The following information is in accordance with the Essential Health and Safety Requirements (Annex II) of the EU Directive 94/9/EC [the ATEX Directive - safety of apparatus] and is provided for those locations where the ATEX Directive is applicable.

General

- a) In common with all other electrical apparatus installed in hazardous areas, this apparatus must only be installed, operated and maintained by competent personnel. Such personnel shall have undergone training, which included instruction on the various types of protection and installation practices, the relevant rules and regulations, and on the general principles of area classification. Appropriate refresher training shall be given on a regular basis. [See clause 4.2 of EN 60079-17].
- b) This apparatus meets the requirements of electrical apparatus in accordance with EN 50014 and EN 50020. The apparatus also meets the requirements of the newer harmonized standards EN 60079-0 and EN 60079-11 as there is no technological difference in the standards when applied to this apparatus.
- c) This apparatus provides protection against all the relevant additional hazards referred to in Annex II of the directive, such as those in clause 1.2.7.

Installation

- a) The installation must comply with the appropriate European, national and local regulations, which may include reference to the IEC code of practice IEC 60079-14. In addition, particular industries or end users may have specific requirements relating to the safety of their installations and these requirements should also be met. For the majority of installations the Directive 1999/92/EC [the ATEX Directive - safety of installations] is also applicable.
- b) This apparatus is an electrical apparatus and is normally mounted in a hazardous area (Zone 1 or 2). It must be mounted in an enclosure with an IP54 or better rating according to EN 60529.
- c) This apparatus must not be subjected to mechanical and thermal stresses in excess of those permitted in the certification documentation, this safety information and the product specification. The product must be protected by an enclosure to prevent physical damage.
- d) The apparatus must not be installed in a position where it may be attacked by aggressive substances and must be protected from excessive dust, moisture and other contaminants by the enclosure.
- e) See further installation instructions in Document Numbers 500-275, and 500-948.

Inspection and maintenance

- a) Inspection and maintenance should be carried out in accordance with European, national and local regulations which may refer to the IEC standard IEC 60079-17. In addition, specific industries or end users may have specific requirements which should also be met.
- b) Access to the internal circuitry must not be made during operation or at any other time.
- c) If the outer enclosure of the apparatus needs to be cleaned, this should be done with a cloth lightly moistened by a dilute mixture of detergent in water.

Repair

This product must not be repaired. It must be replaced by an equivalent certified product.

Marking

Each Megablock and IS Megablock Terminator is marked with the following information:

- a) Company Logo, Name, and Address (shown below)
- b) Product Number
- c) Certificate number – **LCIE 02 ATEX 6212 X**
- d) Ex classification – **II 1 G Ex ia IIC T4**
- e) CE mark and Notified Body Number (LCIE) – **0081**
- f) Ambient Temperature range - **-45C ≤ Tamb ≤ 70C**

Special Conditions for Safe Use

The equipment is an intrinsically safe apparatus and can be mounted in an explosive atmosphere according to the above markings.

The equipment must be installed according to drawing MB-020108 or MB-020109 (contained in document number 500-275).

The equipment must be only connected to certified associated intrinsically safe equipment. These combinations must be compatible with regard to intrinsically safe rules.

Ambient Operating Temperature: -40°C to +70°C

The electrical parameters of the combined connected equipment must not exceed any of the following values:

	Entity Parameters			FISCO Parameters		
	Group IIC	Group IIB	Group IIA	Group IIC	Group IIB	Group IIA
Uo	24V			17.5V		
Io	250mA			380mA		
Po	1.2W			5.32W		
Co	62nF	185nF	620nF	116nF	348nF	1.16uF
Lo	568uH	1.7mH	5.68mH	246uH	738uH	2.46mH

Note: The above values for Co and Lo for FISCO installations were published as part of the LCIE approval in 2002. Current editions of the FISCO standard IEC60079-27 do not require the consideration of Co and Lo provided the connected field apparatus is FISCO certified. Relcom document 500-948 (FCS-MBT Installation Instructions) contains an FM Control Drawing which has detailed information for a FISCO installation.