

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 16 ATEX 7844 X

Issue: 00

- (4) Equipment: **Local Control Station, LCS***
- (5) Manufacturer: **MASHIN SAZI SHOMAL (PIROOZ)**
- (6) Address: **C2 Ave. Salmanshahr Industrial Park Salmanshahr, Mazandaran Iran**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/ Ex 7844.00 / 16 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012+A11:2013
EN 60079-11:2012

EN 60079-1:2007
EN 60079-18:2009

EN 60079-7:2007
EN 60079-31:2009

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.



II 2 G Ex d e ib mb IIC T6 Gb

II 2 D Ex tb IIIC T85°C Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2016-11-28

Dipl.-Ing. Klauspeter Graffi

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This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 16 ATEX 7844 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

LCS*, where * (series) is a placeholder for the following sizes: 120, 220, 260.

15.2 Description / Details of Change

General product information

The control unit types, LCS120, 220 and 260, consist of an aluminum enclosure certified to type of protection increased safety "e" and dust protection "t". It is designed to accommodate control and signaling elements as well as measuring instruments and terminals for intrinsically safe and non-intrinsically safe circuits. And enclosure covers are designed for maximum two or four or nine control/signal/measuring elements for each size of enclosures. All installed and attached components have been tested and certified under separate EU/EC certificate of conformity. Connection to enclosures is by means of explosion proof cable and conduit entries (according to enclosure certificate). Several of these enclosures may be connected in series by suitable certified flameproof unions/bushings. All 3 variants are suitable for permanent/fixed installation inside hazardous area, depending on the type of protection and equipment level of apparatuses installed; it can be operated as category "2" equipment and under appropriate marking stated in this certificate.

Technical Data

Rated Voltage** max. 690 V

Rated current** max. 16 A

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**= The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and due to regard of the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc.

The maximum permissible ambient temperature range of the LCS can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

IP rating depends on mounted components (Refer to table 1 in operating instructions)

No IP rating with components from EATON

max IP rating for Ta -30°C to +55°C is IP54

IP rating for Ta -20°C to +40°C depending on mounted components (refer to table 1 in operating instructions, EATON excluded)

(16) Test-Report No. 557 / Ex 7844.00 / 16

(17) Special Conditions for safe use

1. Suitable certified cable glands or blanking elements, that sustain the type of protection and IP66/65, must be used.
2. If a breather is equipped, the lower IP rating is used instead.
3. The insulation of conductors must match with temperature requirements.
4. Clearance and creepage distances have to be observed when components are mounted

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

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