



GOVERNMENT OF INDIA
PETROLEUM & EXPLOSIVES SAFETY ORGANISATION (PESO)
(Formerly known as Department of Explosives)
"A" Block, 5th Floor CGO COMPLEX
SEMINARY HILLS
NAGPUR 440006



No.A/P/HQ/MH/104/819
(P255373)

Dated 09/04/2010

To,

✓
M/s MTL India Instruments Pvt. Ltd.,
36, Nehru Street,
Off. Mahabalipuram Road,
Sholinganallur, Chennai-600119.

Sub:- Renewal of 600 Series Loop Powered Indicators (Type MTL 661 and MTL 662 Loop Powered Indicator) as per Test Report No. Kema 03 ATEX 1194 X dated 13/06/2003.

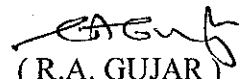
Dear Sirs,

Reference your letter No Nil.

The approvals issued for the subject equipments vide this office letters of even No. dated 16/08/2004 is hereby extended for a further period of five years upto 15/08/2014. The conditions as stipulated in the above referred letters remains unchanged.

The field performance report from actual users/your customers of the subject equipment may please be collected and furnished to this office for verification & record at regular intervals.

Yours faithfully,


(R.A. GUJAR)

Controller of Explosives
for Chief Controller of Explosives



GOVERNMENT OF INDIA
 MINISTRY OF COMMERCE & INDUSTRY
 DEPARTMENT OF EXPLOSIVES
 CGO COMPLEX SEMINARY HILLS
 NAGPUR 440006

Letter No: A/P/HQ/MH/104/ 819
 (P125373)

Email :cceo@nag.mah.nic.in

Phone/Fax No.2510248/2510577

Dated : 16/8/2004

To
 M/s.Measurement Technology Ltd.,
 Ower Court, Luton,
 Bedfordshire, LU1 3JJ,
 England,
 U.K.

AUG 2004

Sub : Approval of 600 Series Loop Powered Indicators.

Dear Sir(s),

The following Special Protection equipment(s) manufactured by you according to EN:50021 & 81 standards and covered under Kema Test reports mentioned below is approved for use in Zone 1 , group IIC hazardous areas coming under the purview of the Petroleum Rules, 2002 administered by this Department.

Sno	Description	Safety Protection	Agency	Test Report	Drawing Numbers
1	MTL 661 and MTL 662 Loop Powered Indicator.	EEx ia	Kema	03 ATEX1509 Dtd.30/12/2003	

This Approval is granted subject to observance of the following conditions:-

- 1 The design and construction of the equipment shall be strictly in accordance with description, condition and drawings as mentioned in the Kema Test Reports referred to above
- 2 The equipment shall be used only with approved type of accessories and associated apparatus
- 3 The equipment shall be used only in conjunction with the approved Special Protection barriers
- 4 Each equipment shall be marked either by raised lettering cast integrally or by plate attached to the main structure to indicate conspicuously
 - 1) Name of the manufacturer
 - 2) Name and number by which the equipment is identified
 - 3) Number & Date of the test Report of the Kema applicable to the equipment
 - 4) Number & Date of this letter by which use of the apparatus is approved

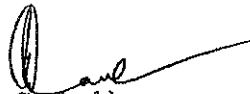
- 5 A certificate to the effect that the equipment has been manufactured strictly in accordance with the drawing referred to in the Kema test report and is identical with the one tested and certified at Kema shall be furnished with each equipment
- 6 The customer shall be supplied the copy of this letter, an extract of the conditions and maintenance schedule, if any recommended by Kema in their test reports and copy of instructions booklet detailing operation and maintenance of the equipment so as to maintain its Special Protection safety characteristics
- 7 The After sales service and maintenance of subject equipment shall be looked after by your representative M/s MTL India Private Limited, Plot NO 20 Sector 4 Nerul,, Navi Mumbai, MUMBAI (Dist.) , Maharashtra (State)

This Approval also covers the permissible variation as approved under the Kema test report referred above. This approval may be deemed to have been revoked with immediate effect at any time, if any of the conditions subject to which approval has been granted is violated or not complied with. The approval may also be amended or withdrawn at any time, if considered necessary in the interest of safety.

The field performance report from actual users /your customers of the subject equipment may please be collected and furnished to this office for verification and record at regular intervals.

This approval is otherwise valid a period of five years from the date of issue.

Yours faithfully,



(R.C. Kaul)

Deputy Chief controller of Explosives
for Chief Controller of Explosives
Nagpur

Copy to :

1. The Jt. Chief Controller of Explosives, West Circle, Mumbai; East Circle, KolKatta; South Circle, Chennai; North Circle, Faridabad; Central Circle, Agra.
2. M/s MTL India Private Limited, Plot NO 20 Sector 4 Nerul,, Navi Mumbai, MUMBAI (Dist), Maharashtra (State)

for Chief Controller of Explosives



(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 03ATEX1194 X** Issue Number: **4**

(4) Equipment: **Loop Powered Indicator MTL661, MTL662, MTL663 and MTL664**

(5) Manufacturer: **Measurement Technology Limited**

(6) Address: **Power Court, Luton, Bedfordshire, LU1 3JJ, England**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 211270200/2.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2006
EN 61241-0 : 2006

EN 60079-11 : 2007
EN 61241-11 : 2006

EN 60079-26 : 2007

(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 EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 1 G Ex ia IIC T4
II 1 D Ex iaD 20 IP 65 / 67 T 100 °C

This certificate is issued on July 10, 2008 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.


C.G. van Es
Certification Manager

Page 1/2



Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

KEMA Quality B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 26 3 56 20 00 F +31 26 3 52 58 00 customer@kema.com www.kema.com Registered Arnhem 09085396

Experience you can trust.



- (13) **SCHEDULE**
- (14) **to EC-Type Examination Certificate KEMA 03ATEX1194 X** Issue No. 4
- (15) **Description**
The 4 ... 20 mA Loop Powered Indicator Model MTL661, Model MTL662, Model MTL663 and Model MTL664 for panel mounting or field mounting, is connected in series in an intrinsically safe circuit. The input circuit of the indicator is designed such, that it does not influence the intrinsically safe circuit to which it is connected.
The indicator may optionally be provided with a backlight (Model MTL66xB).

The enclosure of the indicator provides a degree of protection of at least IP67 in accordance with EN 60529.

Ambient temperature range -25 °C ... +70 °C.

The maximum temperature of the enclosure T₁₀₀ °C is referred to an ambient temperature of 70 °C and is applicable to a maximum dust layer thickness of 5 mm.
- Electrical data**
- Input circuit (terminals 4 and 5):
in type of protection intrinsic safety Ex ia IIC, only for connection to an intrinsically safe circuit, with the following maximum values:
U_i = 30 V; I_i = 200 mA; P_i = 1,2 W; C_i = 0 nF; L_i = 0 mH
- Backlight circuit (terminals 9 and 10):
in type of protection intrinsic safety Ex ia IIC, only for connection to an intrinsically safe circuit, with the following maximum values:
U_i = 28 V; I_i = 200 mA (resistively limited); P_i = 0,96 W; C_i = 0 nF; L_i = 0 mH
- The backlight circuit is separated from the input circuit.
- Installation instructions**
- To maintain the degree of protection of IP6X in accordance with EN 60529, certified cable entries in accordance with EN 61241-0 must be used and correctly installed. Unused openings must be closed with suitable blanking elements.
- To avoid voltage and current addition the intrinsically safe circuits shall be wired according to EN 60079-14.
- (16) **Test Report**
KEMA No. 211270200/2.
- (17) **Special conditions for safe use**
When the enclosure of the Indicator is made of aluminium alloy, when used in a potentially explosive atmosphere requiring apparatus of equipment category 1 G, the Indicator shall be installed so, that even in the event of rare incidents, an ignition source due to impact or friction sparks between the enclosure and iron/steel is excluded.
- (18) **Essential Health and Safety Requirements**
Covered by the standards listed at (9).
- (19) **Test documentation**
As listed in Test Report No. 211270200/2.