



NIPPON KAIJI KYOKAI

Certificate of Type Test

Certificate No.
TA06478M

FOR EXPLOSION PROTECTED TYPE ELECTRICAL EQUIPMENT

APPLICANT: M.T.L Instruments K.K., Tokyo, Japan

MANUFACTURER: M.T.L Instruments Pvt. Limited, Chennai, India

PRODUCT: Intrinsically Safe Type Shunt-diode Safety Barrier System for Controller Outputs

TYPE NO.: MTL787SP+

TYPE TEST NO.: 98T605

PARTICULARS: Construction Intrinsically safe type
(Ex ia II C, Class I, Division 1, Group A,B,C,D)

Applied standards FMRC Class No. 3610 (1988), 3611 (1986),
3600 (1989), 3810 (1989)
EN50014(1977)+Amendments 1 to 5
EN50020(1977)+Amendments 1 and 2

Intrinsically safe circuit
Max. output voltage 28V
Max. output current 119.3mA
Optimum Power 835mW
External Capacitance 0.13 μ F
External Inductance 2.47mH

Non-intrinsically safe circuit a.c./d.c.250V max.
Operational voltage 24.5V
Operational current 80mA

CONDITION: Intrinsically safe apparatus connecting to the above product is to be certified or approved by the Society.

DOCUMENTATION: SCI787SP, CI700, SCI326-1~3, CI787-229-1~3, CI700-1-1/1,
CI700-2-1/1, CI700-5-1/1, CI700-6-1/1

THIS IS TO CERTIFY that the above mentioned product has been approved by the NIPPON KAIJI KYOKAI in accordance with the Society's type test requirements for electrical equipment and cables.

This certificate is valid until the 13th October 2010.

Issued at Tokyo on the 8th September 2006.



S. Ogawa
General Manager
Machinery Department