

MATE (TU-500)



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IMPORTANT NOTICE

This start guide provides basic guidelines for the MATE use. Refer to the MATE Reference Manual for additional details including configuration, diagnostics, maintenance, service, and troubleshooting.

No precautions against electrostatic discharge are necessary for equipment carried by the person that has an enclosure made of plastic metal or a combination of the two, except where a significant static-generating mechanism has been identified. Activities such as placing the item in a pocket or on a belt, operating a keypad or cleaning with a damp cloth, do not present a significant electrostatic risk. However, where a static-generating mechanism is identified, such as repeated brushing against clothing, then suitable precautions shall be taken, e.g. the use of anti-static footwear.

The cells in the battery compartment shall only be changed by trained service technicians.

WARNING

Explosions could result in death or serious injury

Installation of this MATE in an explosive environment must be in accordance with the appropriate local, national, and international standards, codes, and practices. Please Review the Product Certifications section for any restrictions associated with a safe installation.

- Before connecting the MATE in an explosive atmosphere, ensure the instruments are installed in accordance with intrinsically safe field wiring practices.

Electrical shock can result in death or serious injury

- Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.

Use only with RCS Batteries P/N 095820 or P/N 095818, do not mix.

VERIFY OPERATION

Operation can be verified with the MATE handheld device

Handheld Device

Check the Status of the connection with the MATE handheld device. Refer to the handheld device documentation for more details.

Troubleshooting

If the device is not operating properly, refer to the troubleshooting section of the MATE Reference Manual.

PRODUCT CERTIFICATIONS

Product Name: Mate
Model: TU-500

Approved Manufacturing Location

Rohrback Cosasco Systems, Inc. — Santa Fe Springs, California USA

Canadian Standards Association (CSA Group)

The MATE has been examined and tested to determine that the design meets basic electrical, mechanical and fire protection requirements by CSA, a Nationally Recognized Testing Laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

European Union (EU) Directives

ATEX certification

SIRA 14 ATEX 2263X
Ex ia IIC T4 Ga, Ta = -40C to +70C
Enclosure: IP20
For use only with RCS Batteries P/N 095820 or P/N 095818, do not mix.

ATEX Directive 94/9/EC

The MATE complies with the European ATEX Directive and the following standards:

EN 60079-0:2012/A11:2013, Explosive atmospheres – Part 0: Equipment – General Requirements

EN 60079-11:2012, Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”

IEC Ex Certification

IECEX SIR 14.0096X
Ex ia IIC T4 Ga, Ta = -40C to +70C
Enclosure: IP20 Minimum
For use only with RCS Batteries P/N 095820 or P/N 095818, do not mix.

The MATE complies with the following IEC standards:

IECEX:

IEC 60079-0:2011, Edition 6.0, Explosive atmospheres – Part 0: Equipment – General Requirements

IEC 60079-11:2011, Edition 6.0, Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”

North American Certifications

CSA Certification: 70007061

CSA_{US} Class I, Zone 0, AEx ia IIC T4 Ga, Ta = -40C to +70C

cCSA Ex ia IIC T4 Ga, Ta = -40C to +70C

Enclosure: IP20 Minimum

For use only with RCS Batteries P/N 095820 or P/N 095818, do not mix.

The MATE complies with the following North American standards:

US Approval:

ANSI/ISA-61010-1 3rd Edition, Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition

ANSI/UL 60079-0:2013, 6th Ed. Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements

ANSI/UL 60079-11:2013, 6th Ed. Electrical apparatus for Explosive Gas Atmospheres – Part 11: Intrinsic safety “i”

Canadian Approval:

CAN/CSA-C22.2 No. 61010-1-12, Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition

CAN/CSA-C22.2 No. 60079-0:11 Ed. 5, Explosive Atmospheres – Part 0: Equipment – General requirements

CAN/CSA-C22.2 No. 60079-11:14 Ed. 6, Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety “i”

Electromagnetic Compatibility Directive (EMC) 89/336/EEC, Amended 91/263/EEC, 92/31/EEC and 93/97/EEC

The MATE complies with the European EMC Directive and the following standards:

EN 61326-1:2013, Electrical Equipment for Measurement and Control

EN 61326-1:2013, Group 1 Class B: Radiated Emissions

EN 61000-4-2:2009, EMC: Electrostatic Discharge Immunity

EN 61000-4-3:2010, A2:2008, EMC: Radiated Radio Frequency Immunity

Radio and Telecommunications Terminal Equipment Directive (R&TTE) 1999/S/EC

The MATE complies with the European R&TTE Directive

Telecommunication Compliance

All wireless devices require certification to ensure that they adhere to regulations regarding the use of the radio frequency (RF) spectrum. Nearly every country requires this type of product certification. RCS is working with governmental agencies around the world to supply fully compliant products and to remove the risk of violating country directives or laws governing wireless device usage.

NOTES: