



Dresser B3 Meter MTU Installation Instructions (Y20967-TUM Rev B)

FCC/ISED Compliance

This product/device has been tested and certified to be in compliance with all appropriate requirements of both the FCC and ISED.

Any changes or modification to this product/device, or the use of any antenna other than the one provided by or authorized with expressed written approval by Aclara Technologies LLC may void the user's authority to operate this product/device.

This product/device and/or its antenna must be fixed-mounted on indoor or outdoor permanent structure(s) providing a separation distance of at least 20 cm from all persons during normal operation. This device is not designed (and it has no external connection) to operate in conjunction with any other antennas or transmitters. No other operating instructions for satisfying RF exposure compliance are needed.

This product/device has been tested and calibrated at the factory. It has no user adjustable controls and can only be adjusted by authorized, trained personnel.

French translation:

Conformité FCC/ISDE

Cet équipement a été testé et il est conforme à toutes les exigences appropriées de la FCC et de l'ISDE.

Tout changement ou toute modification à cet appareil, ou l'emploi de n'importe quelle antenne autre que celle fournie par ou autorisée sous l'accord exprès donné par écrit d'Aclara Technologies LLC peut annuler l'autorisation d'utiliser de cet appareil.

Cet appareil ainsi que son antenne doivent être montés de manière fixe sur des structures intérieures ou extérieures permanentes en conférant une distance d'au moins 20 cm des personnes pendant le fonctionnement normal. Cet appareil n'est pas conçu (et il n'a aucun branchement externe) pour être utilisé en association avec toute autre antenne ou tout émetteur. Aucune autre instruction d'utilisation n'est requise pour assurer la conformité aux règles d'exposition aux RF.

Cet appareil a été soumis à des tests et calibré en usine. Il n'a pas de contrôle d'ajustement et ne peut être ajusté que par un personnel autorisé et qualifié.

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Purpose & Scope

This instruction provides a procedure for use in installing an Aclara STAR MTU on Dresser B3 gas meter. This installation instruction covers the Aclara Catalog number 3581-055-RBS2W for this gas meter. *(The images in this document are for reference only.)*

Parts Required



**Temperature
compensated**



**Non-temperature
compensated**

Item	Description	Part Number	Qty
MTU	Series 3500 Direct Mount MTU (Extended Range)	3581-055-RBS2W	1
Retaining ring	Retaining ring for use with Aclara cover	061059-000	1
Cover	Aclara cover	Dresser P/N 060698-000	1
Screws	Mounting screws	000141-269	3
Security seal kit	Rock Seal security seal kit (with screw)	053060-208	1
Quad ring seal	Quad ring seal	013456-244	1
Dessicant	Adhesive dessicant pack	060337-003	1
Screws	MTU/index mounting screws	000141-250	2

NOTE

The mounting kit contains the exact quantity of hardware required for a single installation. Keep extra hardware on hand.

NOTE

No repair or maintenance of MTU is required. Defective MTU will be replaced.

NOTE

MTU may be wiped with damp cloth to prevent electrostatic charge hazard.

Tools Required

To mount the MTU to these meters, you will need the following tools and equipment:

- Phillips or slotted screwdriver
- Safety glasses
- 9/64" T-handle hex key, 9" long
- 5/32" T-handle hex key, 9" long
- 5 - 40 in-lb Torque wrench

Remove Index

Before installing the MTU, remove all anti-tamper, safety, and security hardware from the clear index cover.

1. Remove the four index cover screws.



NOTE

Do not install MTU if any of the screws are broken.

2. Remove and discard the slip flange.



3. Carefully remove the index unit by pulling it straight out from the meter body.
4. Remove and discard the screws that hold the index to the clear housing using a 9/64" hex key wrench. The screw may be accessed through the tool access port.



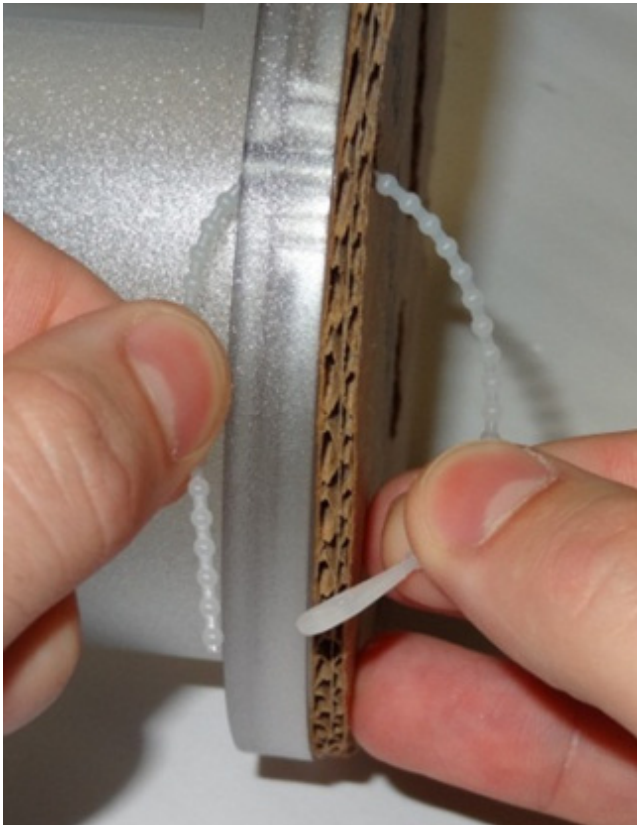
5. Set the index aside.

6. If present, remove the dessicant pack, and wipe the mating surface of the meter with a clean, non-abrasive cloth.



Unpack New Cover

1. Unhook the beaded tie wrap, and remove the protective cardboard and any remaining packaging.



2. Remove the hardware packet from inside the housing. Verify that the hardware packet contains:

Item	Qty.
Mounting screw (GE P/N 000141-269)	3

Security seal assy. (with screw) (GE P/N 053060-208)	1
Quad-ring seal GE (GE P/N 013456-244)	1
MTU/index mounting screw (GE P/N 000141-250)	2
Dessicant pack (GE P/N 060337-003)	1

3. Verify the Quad-ring seal is installed securely into the circular groove in the new cover.



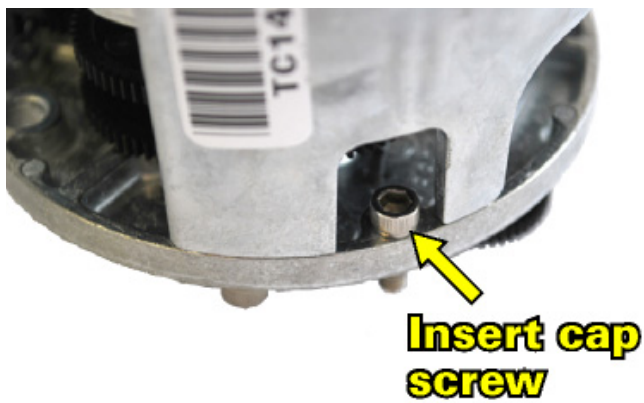
4. Remove and retain the #8-32 x 1/2" socket head cap screw.



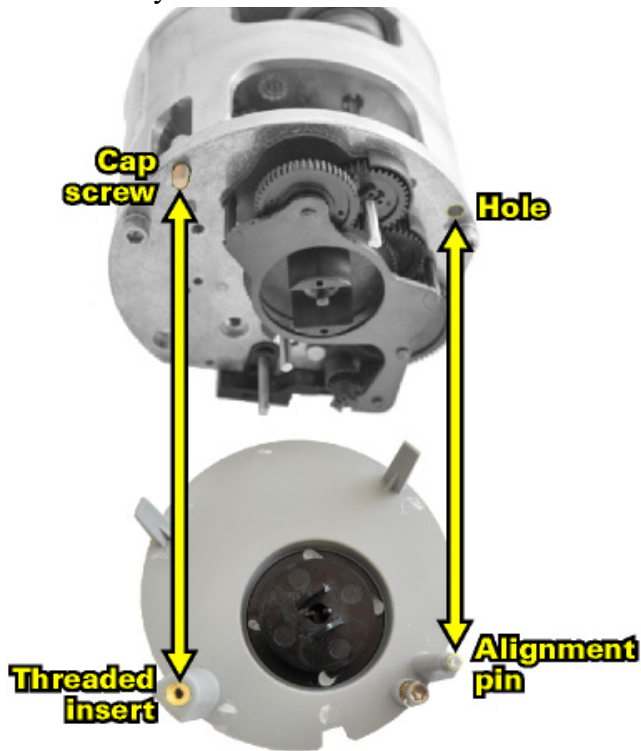
NOTE

The MTU will already be pre-installed in the index cover.

5. Insert the #8-32 x 1/2" socket head cap screw (removed in Step 4) into the mounting hole as shown.



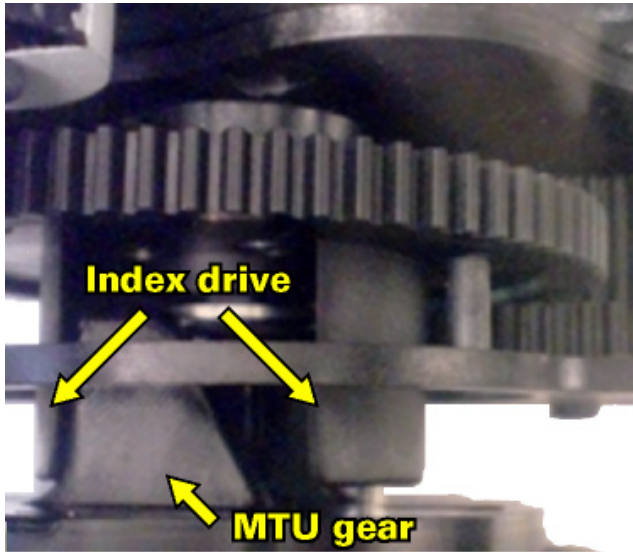
6. Orient the index so the #8-32 x 1/2" socket head cap screw lines up with the threaded insert in the MTU assembly. The remaining mounting hole will correspond with the alignment pin on the MTU assembly.



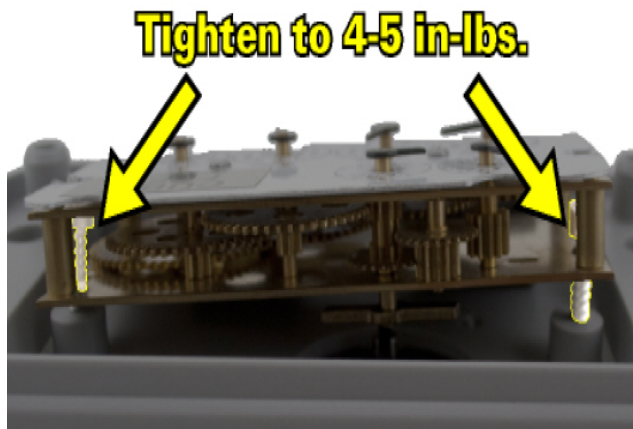
7. Hold the index by the magnetic pickup, and while maintaining alignment, partially lower the index into the cover.



8. Verify the index drive engages with the MTU gear before lowering the index completely. The index drive and MTU gear should turn together smoothly.



9. Tighten the #8-32 x 1/2" socket head cap screw to 9-11 inch-lbs.

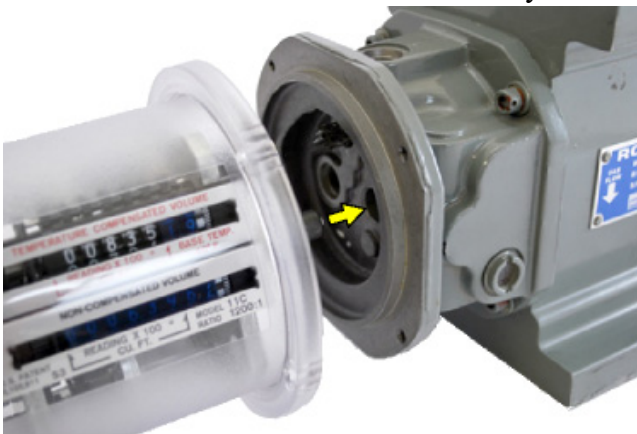


10. Verify that the index drive and the MTU gear still spin smoothly.

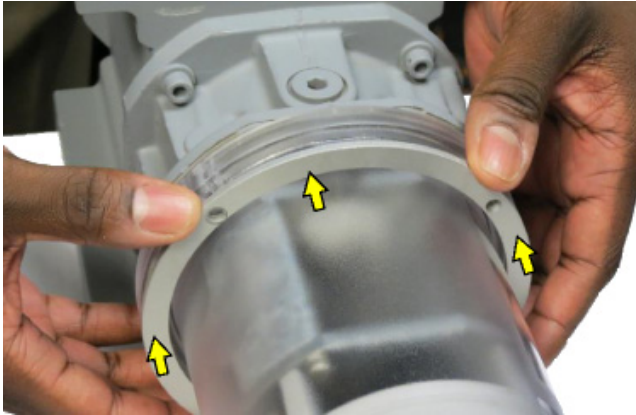
- 11.** Install the new dessicant pack by removing the adhesive backing, and pressing firmly to the meter as shown.



- 12.** Install the index/MTU/cover assembly to the meter head as shown.

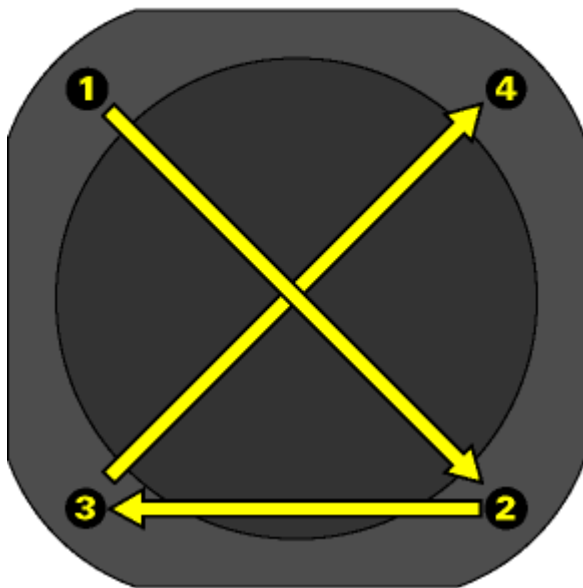


13. Install the new retaining ring over the cover.



14. Install the three mounting screws and one security seal screw into the mounting holes, tightening just enough to hold the assembly temporarily.
15. Tighten the screws in a cross pattern to 14-16 in-lbs.

Torque sequence



Putting the Device into Service

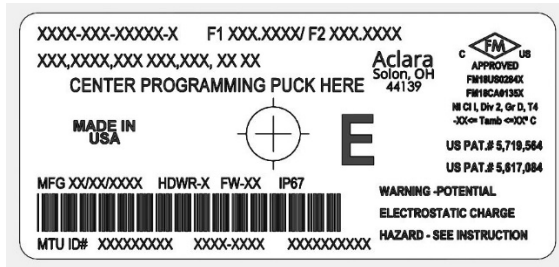
Once installation is complete, program the MTU using the STAR Programmer Software and a field programmer.

NOTE

To take the device out of service, follow the procedure for placing it into service in reverse order.

NOTE

Specific Conditions of use in hazardous locations indicated on label.

MTU Label Example**List of Standards**

1. ANSI/ISA 12.12.01
2. CSA 22.2

NOTE

Training can be provided by Aclara or Aclara can train and certify third party installers. Installers may be anyone certified by Aclara.

Rated Output Power

	Conducted Power	Radiated Power with Max Gain Antenna*
Extended Range	28.5 dBm	31.5 dBm EIRP
	.708 W	1.412 W

*Max antenna gain = 3 dB.