TECH NOTES

F-4300 Clamp-On Ultrasonic Flow Meter

ONICON
Flow and Energy Measurement

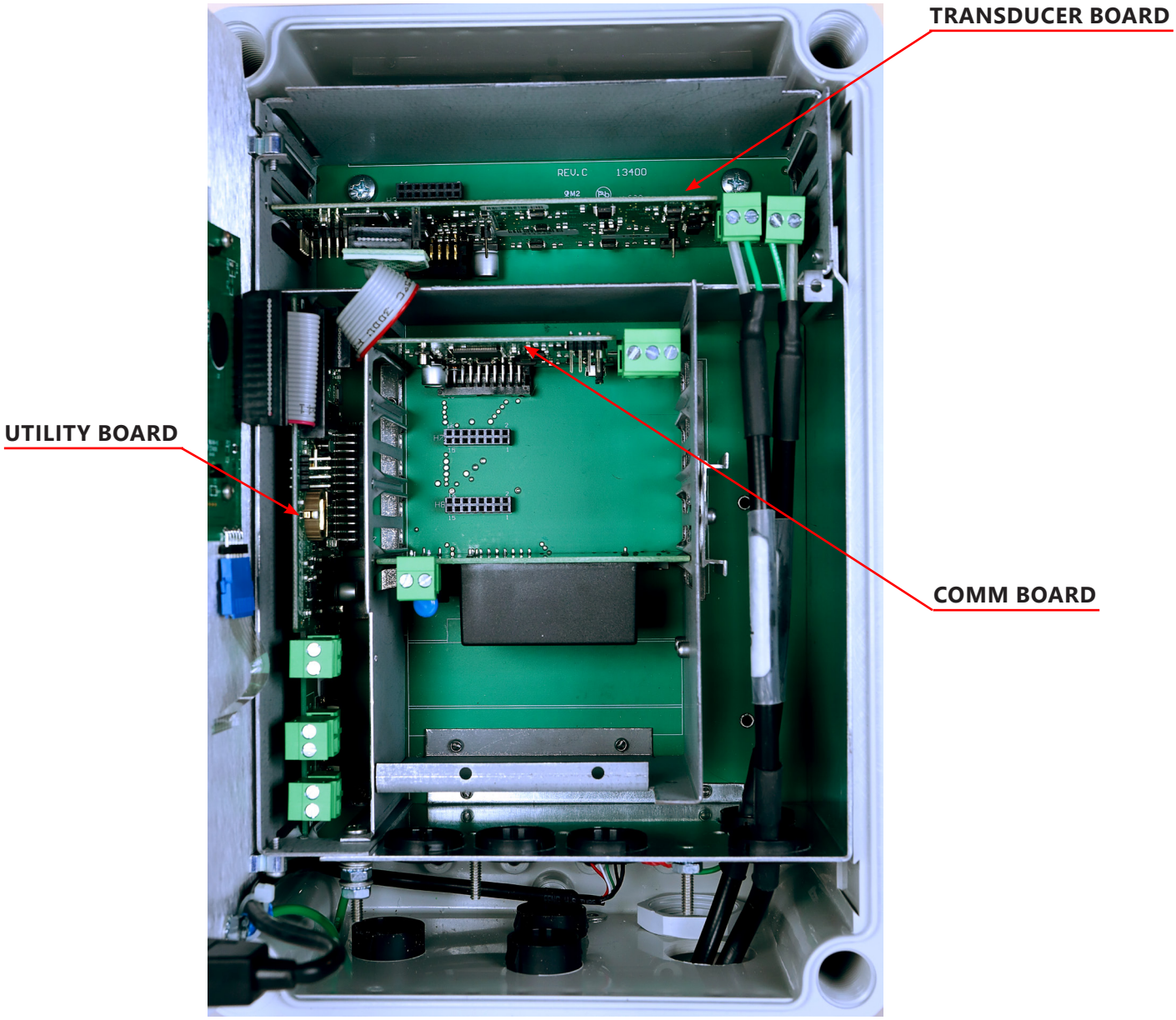
HARDWARE AND TRANSDUCER UPDATES



OVERVIEW

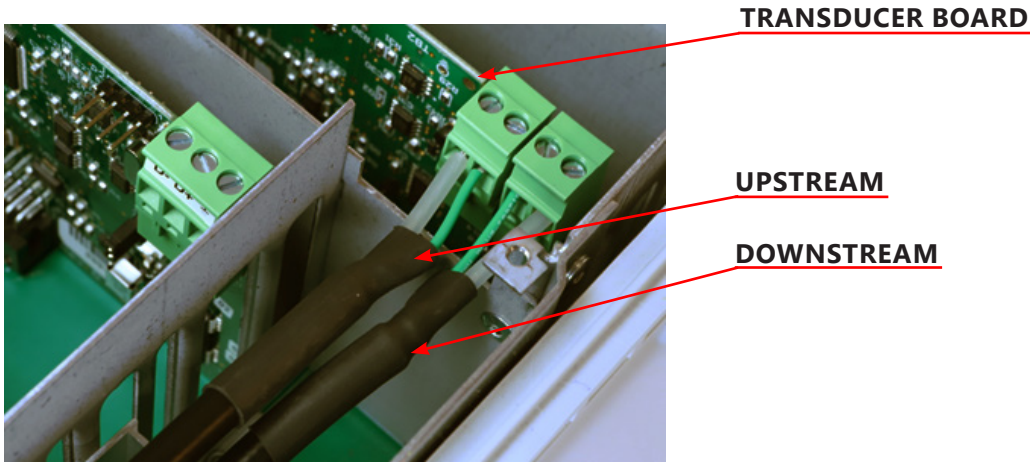
The F-4300 Utility Board, Transducer Board, Comm Board, and Transducers can be easily replaced in the field when required.

F-4300 DIAGRAM



TRANSDUCER BOARD REPLACEMENT PROCEDURE (FOR METERS SHIPPED PRIOR TO 02/01/2020)

1. Disconnect the power at the source before starting the procedure. Contact with exposed live wiring may result in electric shock, burn and/or serious injury.
2. Disconnect upstream and downstream transducer cables.
3. Remove ribbon cable attached to the Transducer Board (if one is present).
4. Using standard static discharge prevention protocols, remove the Transducer Board and replace with the new one.
5. Reconnect the upstream and downstream transducer cables. The transducer cables should be landed as shown in the image below.
6. Reinstall the ribbon cable to the Transducer Board (if present).
7. Reconnect the power.

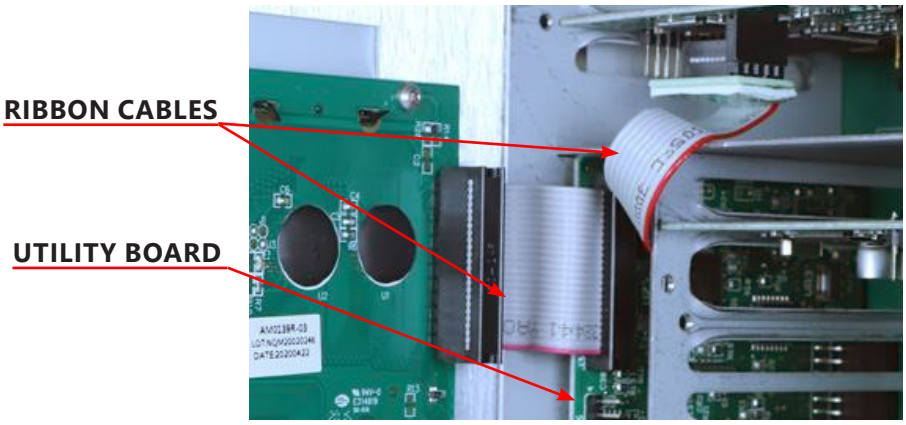


TRANSDUCER BOARD REPLACEMENT PROCEDURE (FOR METERS SHIPPED AFTER TO 02/01/2020)

1. Complete all steps (1-7) from the Replace Transducer Board Procedure (For Meters Shipped Prior to 02/01/2021).
2. Update the firmware. Please reference the F-4300 Firmware Update Tech Note for further instructions.

UTILITY BOARD REPLACEMENT PROCEDURE (FOR METERS SHIPPED PRIOR TO 02/01/2020)

1. Disconnect power at the source before starting the procedure. Contact with exposed live wiring may result in electric shock, burn and/or serious injury.
2. Disconnect any terminals utilized on the Utility Board.
3. Disconnect the two (2) ribbon cables attached to the Utility Board.
4. Remove the Utility Board and install the new board.
5. Reinstall the two (2) ribbon cables to the Utility Board (some units will only have one (1) ribbon cable).
6. Reconnect the power.

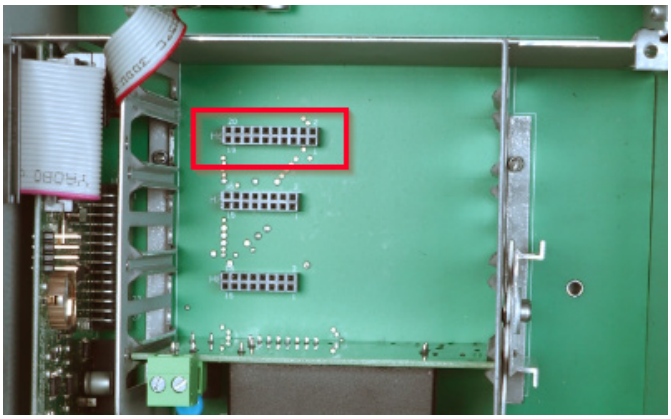


COMM BOARD REPLACEMENT PROCEDURE (FOR METERS SHIPPED PRIOR TO 02/01/2020)

1. Remove the Comm Board and replace it with the new one.

IMPORTANT NOTE
Make sure the Comm Board is put in the upper most slot. See image below.

2. Reconnect the power.



F-4300 Clamp-On Ultrasonic Flow Meter
HARDWARE AND TRANSDUCER UPDATES

TRANSDUCER REPLACEMENT PROCEDURE



10 Series transducer with BNC connector and sealing jacket



10 Series transducer with NEMA 6 (IP67) submersible connector



20 Series transducer with BNC connector and sealing jacket



30 Series transducer with NEMA 4 (IP66) threaded strain relief connector

1. Remove the transducers and brackets from the pipe.
2. Install the new transducers and brackets matching the separation distance calculated in the meter.
3. Please reference the F-4300 Clamp-on Ultrasonic Flow Meter Installation & Operation Guide for further instruction.

If you have any questions or need assistance with the programming changes, please contact ONICON Technical Support at (727) 447-6140 or techsupport@onicon.com.