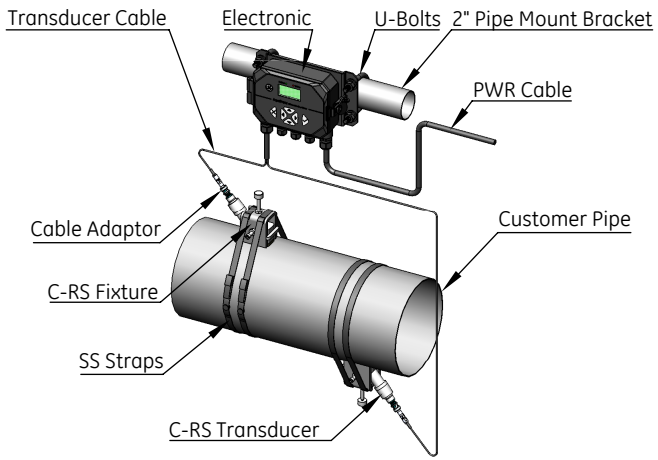
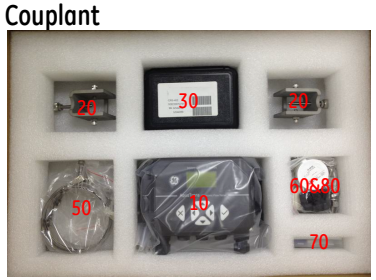
AT600 Quick Installation Guide(CRS)

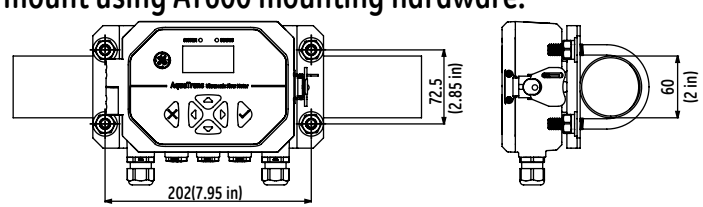


1. Unpack and take out all the components including (but not limit to):

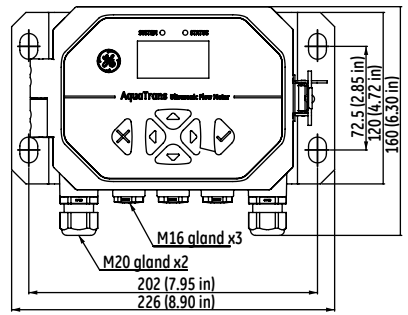
- •10 AT600 Electronics
- •20 C-RS Clamping Fixtures (2)
- •30 C-RS Transducers (2) with BNC adaptors (2) packed in the box
- •40 Transducer Cable (Bottom side of the package)
- •50 Stainless Steel Mounting Straps (4)
- •60 AT600 Mounting Hardware: U-bolts with hardware (2)
- •70 USB with Technical Information
- •80 Couplant

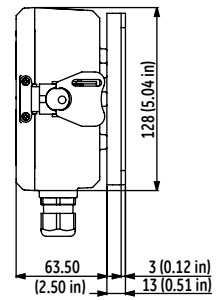


2. Install AT600 electronics through either pipe or wall mount using AT600 mounting hardware.



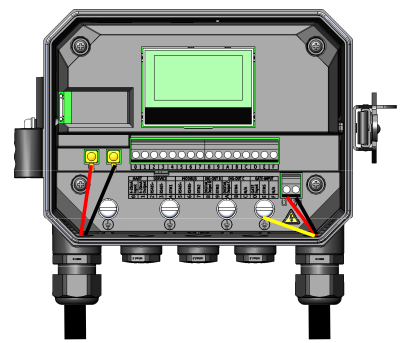
Pipe Mount Dimension





Wall Mount Dimension

3. Wire power and transducer cables to the AT600;



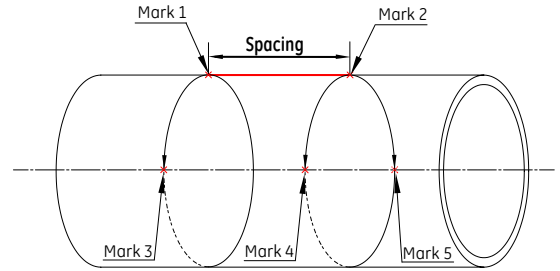
XDR CABLE PWR CABLE

4. Power meter and program flow meter to determine transducer spacing;

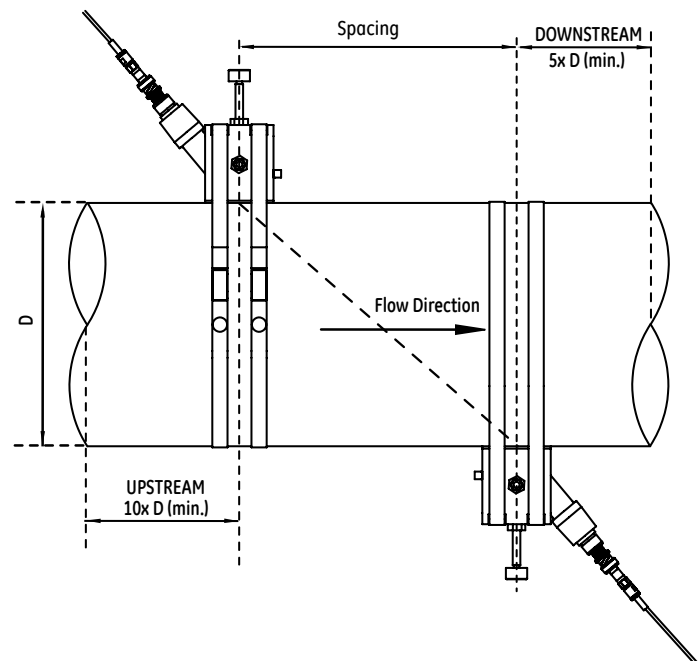
[see AT600 Quick Programming – other side]

5. Install C-RS clamping fixture with C-RS transducers onto the pipe using the stainless steel mounting straps.

Step 1: Obtain the transducer spacing dimension on the meter;
Step 2: Choose location with enough straight run on the pipe;
Step 3: Draw a line parallel with the center line on top of the pipe
Step 4: Make two marks (Mark 1&2) on the line on top of pipe which distance equals to the transducer spacing;
Step 5: From Mark 1, Measure around the circumference of the pipe a distance equal to 1/4 of the pipe circumference to get Mark 3, Repeat this to get Mark 4 (or Mark 5);



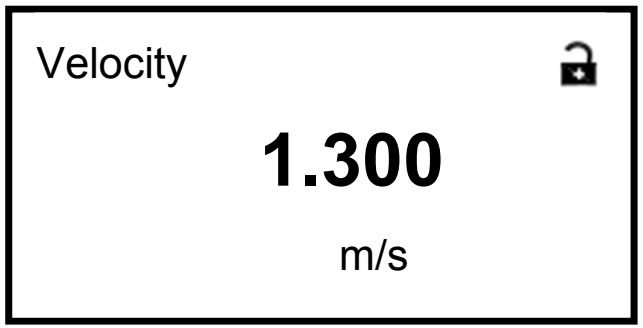
Step 6: Center one fixture over Mark 3 on the pipe and align with the mark, Fasten the fixture by two straps;
Step 7: Center another fixture over Mark 4 for dual traverse installation (or Mark 5 for Single traverse) on the pipe and align with the mark, Fasten fixture by two straps;
Step 8: Apply couplant to C-RS transducers and put the C-RS transducers into the fixutre, align the transducer and fasten them by three screw hardwares on fixture;
Step 9: Make cabling with AT600 cable and C-RS transducers through two BNC adaptors;



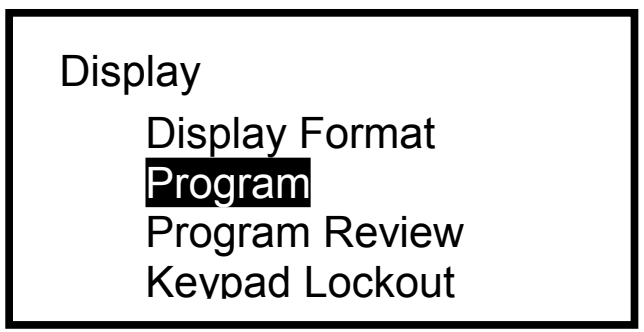
Note: Refer to GE document 916-077, C-RS Installation Guide, for C-RS transducer and fixture installation onto the pipe.

AT600 Quick Program Guide

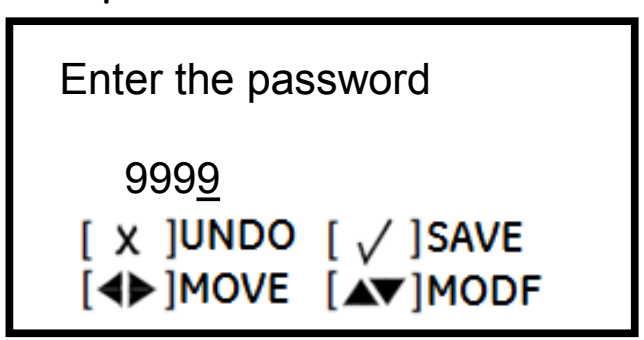
1. Highlight the lock symbol and press [√].



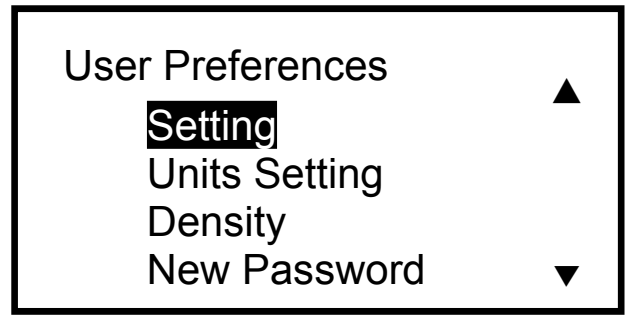
2. Select *Program* **and press** [√].



3. To enter the password and press [√].
(default password is 1111)

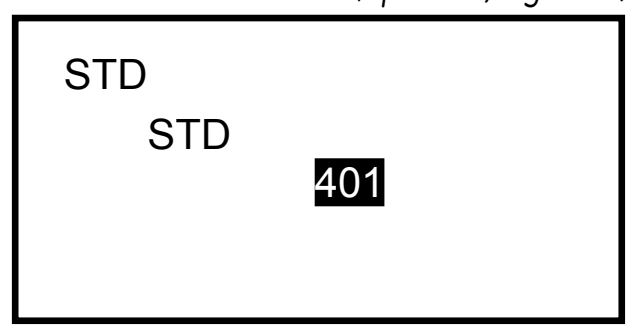


4. In the *User Preference* **menu, press the right arrow key to the desired menu.**



5. In the *Sensor Setup* **Menu, select** *Pipe*
a. Set *pipe outer diameter*, *wall thickness*, *pipe material*, **and** *lining.*
b. Press [x] to get back to the *Sensor Setup* **menu when complete**

6. In the *Sensor Setup* **Menu, select** *Transducer*
a. Select *STD* **for standard transducer and enter** *transducer number(optional, e.g. 401)*;



b. Press [x] to get back to the *Sensor Setup* **menu when complete;**

7. In the *Sensor Setup* **Menu, select** *Traverses*
a. Select *2 traverses* **(both transducers on the same side of pipe if fixture)**
Note: Two traverses is standard initial setup. If different configuration is required, please see AT600 manual.
b. Press [x] to get back to the *Sensor Setup* **menu when complete**

8. In the *Sensor Setup* **Menu, select** *Fluid*
a. Select *water* **or** *other* **based on fluid;**
b. If other, refer "Sound Speeds and Pipe Size Data (914-004)" to enter *fluid Soundspeed*;
c. Press [x] to get back to the *Sensor Setup* **menu when complete;**

9. In the *Sensor Setup* **Menu, select** *Fluid Temperature*
a. Enter fluid temperature;
b. Press [x] to get back to the *Sensor Setup* **menu when complete;**

10. In the *Sensor Setup* **Menu, select** *Transducer Spacing*
a. Transducer spacing if used for setting distance between transducers;
(refer to first Page)
b. Press [x] to get back to the Sensor Setup menu when complete;

11. Press [x] to return to *Save Change* **menu and select** *Yes* **to save new parameters.**

12. Please see AT600 manual for changing display values, setting default measurement units, setting outputs.