

# Series 8700 Magnetic Flowmeter System

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## TRANSMITTER SOFTWARE UPDATE

Software in the Series 8700 transmitters has recently changed. This update replaces information currently in the Model 8712C/U/H and Model 8732 manuals:

00809-0100-4725

00809-0100-4729

Updating the Model 275 handheld HART<sup>®</sup> Communicator is recommended to access all the features, but not required. An updated AMS<sup>™</sup> device driver is required. The AMS device driver and instructions are available online at <http://www.rosemount.com/products/flow/m8732c.html> or <http://www.rosemount.com/products/flow/m8712.html>.

To determine the software revision, cycle power, watch the screen on the Local Operator Interface (LOI) or proceed into the Detailed Setup, Device Information section of the HART Communicator Menu Tree (Figure 1-1).

Model	Old Software Version	New Software Version
8712C	5.9.5	5.10.3
8712U	5.8.5	5.10.3
8732C	5.7.5	5.7.8

There are four modifications to the latest software version. These changes do not effect the accuracy or performance of the device.

- Empty pipe functionality turned off
- Coil open circuit goes to alarm condition
- Model 8732 Display Lockout Feature
- Model 8712U Universal AutoTrim Function

### Empty Pipe Functionality

In previous software versions, the default position of empty pipe functionality was turned on. In the new software version, the default position is off. Empty pipe functionality can be accessed through either an upgraded Model 275 handheld communicator, the Local Operator Interface on the transmitter, or AMS. It is still possible to turn on the empty pipe functionality if a non-upgraded Model 275 handheld communicator is available. Changing the 14th digit in the flowtube calibration number to the number seven will turn off the empty pipe functionality while the number eight will turn on the empty pipe functionality.

HART Fast Key	1, 4, 4, 8
LOI Key	Flowtube Calibration Number

# Series 8700

### Coil Open Circuit

The transmitter communicates a coil open circuit message when the transmitter detects zero coil current. Older software revisions forced the analog output to 4 mA. New software revisions will now go to alarm condition as selected by the failure mode jumper on the left hand side of the electronics board.

### Display Lockout Feature

This change only effects Model 8732 transmitters with LOI. All other Rosemount® magmeter transmitters are not effected by this change. Enabling this feature locks the display on the flow rate screen. To activate this LOI feature, press the lower right optical key twice. Select Display Set and then Display Lockout through the optical switches. Once the display lockout feature is activated, it is still possible to deactivate the display lockout feature through the LOI. Selecting and holding the upper right key for 15 seconds will reactivate the screen for configuration.

### New Universal AutoTrim Function

HART Fast Key	1, 2, 4, 5
LOI Key	Aux. Function

The Universal AutoTrim function enables the 8712U to calibrate other manufacturers that were not calibrated at the Rosemount factory. This function is not applicable to the 8712C, 8712H, or 8732 transmitters and is not required when commissioning 8705, 8707, and 8711 flowtubes.

In this new revision of software, the software builds a 16-digit flowtube calibration number and changes the sixth digit to a five. It is no longer necessary to change the flowtube gain, coil current, and transmitter gain as in the older software revisions. After running the Universal AutoTrim on another flowtube manufacturer's flowtube, record the 16-digit calibration and use it whenever that flowtube is recommissioned with another 8712U transmitter. Model 8712 users without a LOI must upgrade the Model 275 handheld HART Communicator. AMS device driver and instructions are available online at <http://www.rosemount.com/products/flow/m8712.html>.

## TRANSMITTER DEVICE SOFTWARE FUNCTION

The following **NOTE** is to be disregarded in the Model 8712 C/U/H manual (00809-0100-4729). The eliminated NOTE can be found in the 8712 C/U/H manual: revision CA, Section 4: Device Software Functions, Reset Totalizer. If you have any questions please contact your local Rosemount representative.

### NOTE

The totalizer value is saved in the EEPROM memory of the electronics every three minutes if the temperature is less than 131 °F (55 °C) or every six minutes if the temperature is greater than 131 °F (55 °C). Should power to the transmitter be interrupted, the totalizer value will start at the last saved value when power is re-applied.

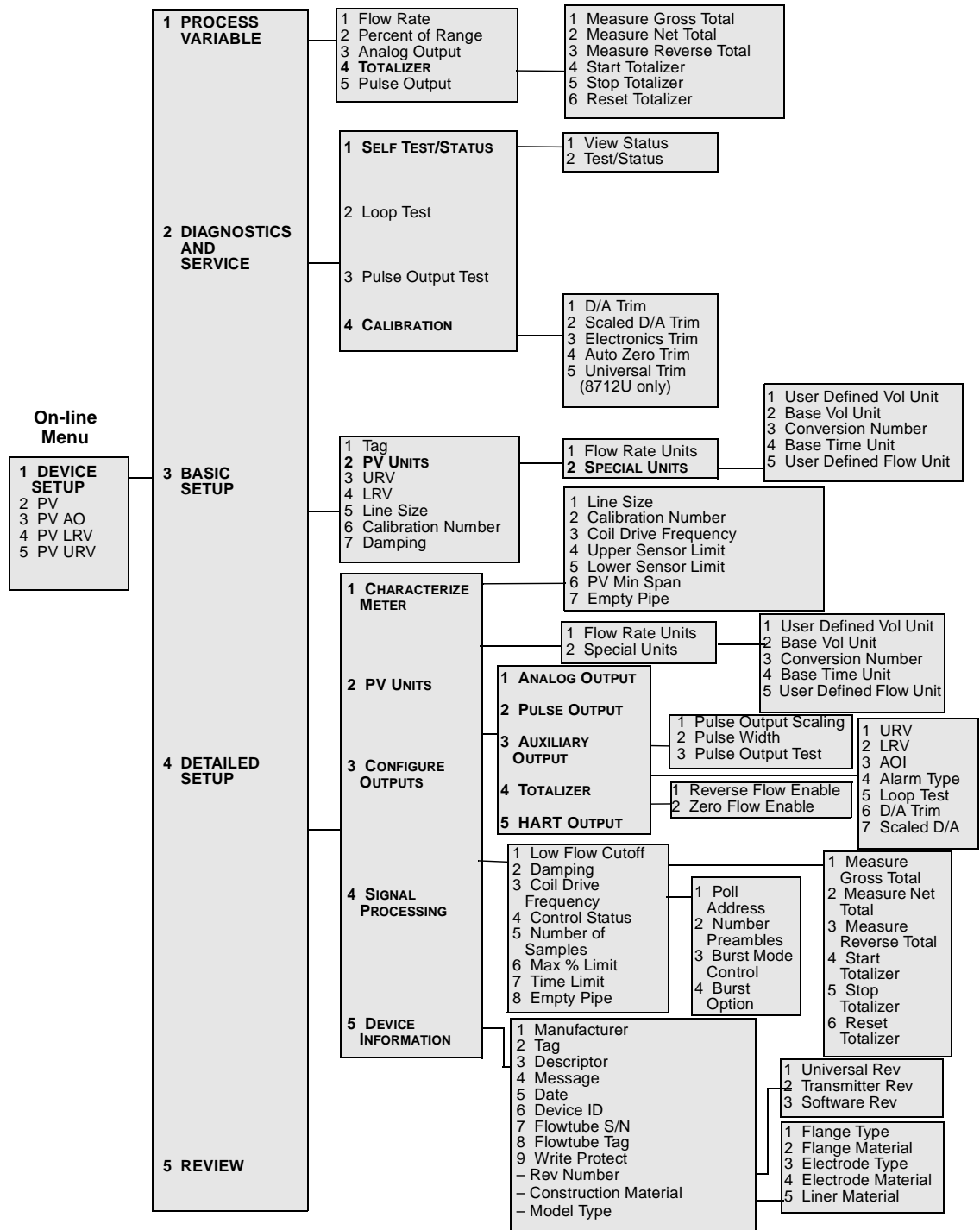
**HART COMMUNICATOR MENU TREE**

The diagram below is to replace the HART® Communicator Menu Tree for Model 8712C/U/H and Model 8732 which is located in the following documents:

00809-0100-4725

00809-0100-4729

Figure 1-1. HART Communicator Menu Tree



## Manual Supplement

00809-0200-4727, Rev CA

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