

E-Chart Image Release History

Version	Release Date	Changes
6.09.16	11/22/2016	Added Calorific Calculation Corrected Energy Flow Calculation (Metric Units) Replaced Mass Units "TON" with "TONNE"
6.09.15	11/25/2015	Added Last 24 Hours Chart Reset RAM after Loading the New Firmware
6.09.14	10/31/2014	Corrected Program Variable Statements (Version 6.09.10 to 6.09.13)
6.09.13	2/7/2014	Correction - Reset Reynolds Number Flag if Not Used (Cone Meter)
6.09.12	10/24/2013	Added Reynolds Number Linear Factor for SmartCone Meter
6.09.11	8/22/2013	Corrected Version 6.09.10 Display Assignment 34 - BLM Screen
6.09.10	8/12/2013	Corrected Version 6.09.09 Date/Time Update Added Setting of Main Port and Bluetooth to Display
6.09.09	10/25/2012	Modified Communication Routine Modified Sdevice Timer Added Chart Data Package
6.09.08	5/14/2012	Added Accelabar Flow Equation (Natural Gas) Modified Download Mode
6.09.07	6/29/2011	Modified Status/Frequency Input Reintialization
6.09.06	12/3/2010	New Display Contrast Initialization
6.09.05	8/27/2010	Modified Display Contrast to Support Version 1 and Version 2 Display
6.09.04	3/31/2010	Added New Display Driver Modified Reset Routine
6.09.03	1/27/2010	Modified to Display Guage Pressure only Correction - Display Assignment 55 - Aux. Meter Gross Cumulative Total
6.09.02	10/1/2008	Added Critical Control Registers
6.09.01	8/27/2008	Added BLM Display Option
6.09.00	3/7/2008	Added Extended Modbus Addressing
6.08.25	9/12/2007	Correction - Hour/Day/Month Program Variables

6.08.24	6/1/2007	Correction - Audit Trail Report - Flowing Density Override
6.08.23	9/20/2006	Read Rosemount Transmitter Type
6.08.22	8/16/2006	Add Custom Storage Hourly Report Correction - Bluetooth Re-Connection Correction - Flowing Density Override
6.08.21	3/17/2006	Add Flow Unit - CF, M3 Add Event Status Add Bluetooth
6.08.20	1/19/2006	Add Enron Modbus Audit/Alarm Date Format Option Correction - Graphic Display - Daily FWA Value
6.08.19	12/8/2005	Correction - Enron Modbus
6.08.18	11/18/2005	Add Support for Rosemount Flow Conditioner - 1595
6.08.17	7/5/2005	Correction - Steam Energy Flow Calculation Correction - Display Unit is Based on the Flow Unit Selection The Size of Data Verification is Increased to 100
6.08.16	3/22/2005	Add Daylight Saving Time Option Add Steam Calculation Add Modbus Registers - Yesterday's Flow Time in Minutes and in Seconds Add Graphical DFM Logo Check SG Limit only if AGA8 Gross Method 2 is used
6.08.15	11/22/2004	Add Orifice Plate Status Input Selector Add V-Cone Linear Flow Coefficient Factor
6.08.14	10/27/2004	Correction - AGA8 Gross Method 2 (from V.6.08.1 to 6.08.13)
6.08.13	10/16/2004	Add Frequency Reading without any Assignment
6.08.12	10/12/2004	Modify Boolean/Program Variable Statements Modify Modbus Shift Routine Add Analog Output Percentage Remote Control Modbus Registers (7049, 4653)
6.08.11	9/27/2004	Add Time Clock in 16 Bits Modbus Registers
6.08.10	9/3/2004	Add Calibration Parameters to be part of the configuration software
6.08.9	9/1/2004	Add Slow Pluse Application Add error checking routine for retrieving daily data of month (Modbus address 3004)
6.08.8	8/25/2004	Add MMCF/KKM3 Option for Display Variables Only

Delete Program Variable Text

6.08.7	8/12/2004	Add TPU Frequency Counter Add Modbus Address 3004 for requesting previous day of last or current month data
6.08.6	8/2/2004	Add Annubar and Verabar Flow Equations
6.08.5	4/29/2004	Add New Modbus Registers - Current Month Flow Data and Flow Time
6.08.4	3/30/2004	Correction - Historical Data Collection
6.08.3	3/18/2004	Correction - Update Hourly, Daily, and Monthly Total Display Variables
6.08.1	3/12/2004	Add IEEE Floating Point Modbus Selection 0= One 32 bits, 1= Two 16 bits Data Add IEEE Floating Point Modbus Sequence 0= HI, LO 1= LO, HI Bytes
6.08.0	1/28/2004	Correction - Updating Data
6.07.9	1/21/2004	Add Image Version Display Selection
6.07.8	1/12/2004	Correction - Historical Hourly/Daily Floating Point Registers
6.07.7	1/2/2004	Correction - Reset 19200 Baud Rate back to 9600 Baud Rate Correction - RS 485 Port Initialization
6.07.6	12/9/2003	Add Last 2 Hours Minutes Data V-Cone Flow Equation - Add Y Factor Selection, Cone Thermal Coefficient Correction - PID Control, not to use pressure loop
6.07.5	11/7/2003	Volume Roll Over at 999999999 Correction - Audit Report Pipe/Orifice ID with 5 Decimal Places Store Time Averaged Temperature and Pressure when there is no flow
6.07.4	10/13/2003	Add Gas of Liquid Application Selection Add Flowing Density Override
6.07.3	10/9/2003	Add Second RS-232 Port
6.07.2	10/1/2003	Add Slotted DP Meter Calculation Add Auxiliary Meter Variables Add New Modbus Registers
6.07.1	9/15/2003	Correction - 16 Bits Modbus Shift Increase Stack Add New Modbus Registers - Last Month Total, Yesterday's Total , Last Hour Total
6.07.0	9/9/2003	Correction - Hourly Archive Data
6.06.9	7/24/2003	Improve Real Time Clock Accuracy

6.06.8	7/1/2003	Add event pointers which have occurred since the last event log request aren't cleared Correction - Program Variable Statements Correction - Hourly Data Date if day is not started at midnight
6.06.7	5/14/2003	Correction - Historical 64 Days Data (Hour by Hour, 24 Hours)
6.06.6	4/9/2003	Add Slow Pulse Option
6.06.5	4/1/2003	Add Enron Modbus Protocol - Historical Hourly, Daily, and Alarm/Event Registers Changes - Up to 100 Historical Alarm and Audit Reports are Stored
6.06.4	12/17/2002	Correction - Pressure and Temperature Manual/Live Bits
6.06.3	11/21/2002	Correction - Update PID Analog Output MA Value
6.06.2	9/5/2002	Correction - Graphic Screen - Averaged Flow Rate
6.06.1	8/1/2002	Set auxiliary meter data if status input assignment is 5
6.06.0	7/20/2002	Add Historical 64 Days Data (Hour by Hour, 24 Hours)
6.05.2	7/1/2002	Add 701, 703 and 704 Data Packets - Historical Hourly and Daily Data
6.05.1	6/28/2002	Add "Gross/Turbine" Text if Auxiliary Meter is Selected
6.05.0	6/11/2002	Correction - Default to US Unit
6.04.0	5/28/2002	Add New Data Entries Metric Pressure Unit Selection - BAR, KG/CM2, or KPA Metric DP Unit Selection - m.BAR, or KPA Auxiliary Meter K Factor
6.03.4	5/6/2002	Add Frequency Input
6.03.3	4/23/2002	Add Bit Map for Each Hour - Hourly Historical Data
6.03.2	4/12/2002	Add Calibration Verification Report
6.03.1	4/9/2002	Add Bit Map for indication that maintenance value being used Correction - AGA8 Gross Method #1/Gross Method #2 Correction - Graphic Daily Flow Rate Trend
6.03.0	3/7/2002	Add 101s Data Packet - Hourly Historical Data Add 411s Data Packet - Daily Historical Data
6.02.0	3/2/2002	Increase Daily Totalizer Resolution
6.01.2	2/15/2002	Graphic Maximum Value Net Flow Rate

Change MCF/Hour to MCF/Day

6.01.1	2/11/2002	Add Data Entry - Water Factor Override
6.01.0	2/6/2002	Read Data and Time from Real Time Clock Add Analog Output Routine
