



PM700 Firmware Revision History

Summary of Production Releases for PM700

Release Version	Date	Reset System	DLF3000 Downloadable Operating System File Name
2.020	July 2006	2.010	PM700_OS2020_RS2010.fw
3.040	October 2007	2.010	PM700_OS3040_RS2010.fw
3.050	July 2008	2.000	PM700_OS3050_RS2000.fw
3.050	July 2008	2.010	PM700_OS3050_RS2010.fw
3.110	April 2009	2.000	PM700_OS3110_RS2000.fw
3.110	April 2009	2.010	PM700_OS3110_RS2010.fw
3.140	December 2010	2.000	PM700_OS3140_RS2000.fw
3.140	December 2010	2.010	PM700_OS3140_RS2010.fw
3.150	August 2011	2.000	PM700_OS3150_RS2000.fw
3.150	August 2011	2.010	PM700_OS3150_RS2010.fw

NOTE: To upgrade PM710(MG), use DFL3000 version 3.30.

Version Number	Description of Changes
2.020	New Features - Added command 6209 for preset energy Modified Features - Pulse output width options to include 10 and 50 (PM700P model only) - Pulse output weight options to include 0.01 kWh/pulse (PM700P model only) - Modified minimum current from 10 mA to 3.5 mA - Modified minimum line to line voltage from 10V to 5V Bug Fixes: - Deleted MAINT menu selection and HEALTH STATUS screen - Added bound for small float values to prevent overflow to Thermal Demand Calculations - Edited the wrench icon to consider frequency out of range only if voltage is not dead banded - Corrected maximum readable register
3.040	New Features - Added Meter Reset Counter - Added conformity for Modbus Address 248 (PM710 model only) - Added command 1115 for Meter Reset Command - Added Signed Power factor in typical SMS/IEEE format to register 4048 - Added Lead / Lag symbol to PF display value - Improved Frequency accuracy Modified Features - Increased rate of pulse outputs (PM700P model only) - Improved metering to properly meter 4 quadrants - Added sign to both power and energy values - Added power on delay of metering current - Updated min/max calculations to only evaluate the Vll and Vln if no frequency lock - Utilized fundamental current for dead banding rather than total RMS - Combined the display screens for demand setup - Changed CT phase shift calibration to utilize the Delay Table as in the PM750 to improve accuracy - Altered Modbus command 0x2B to reply as SE if in IEC mode (PM710 model only) - Modified system 12 to display all values Bug Fixes: - Improved the wrench icon to work with both voltage and frequency - Improved meter's clipping check to not toggle from Low to High Gain if it would clip (prevents wrench icon from coming on at low current) - Improved pulse width timing - Corrected system 32's number of PTs - Altered Demand on KVA to be done on $(P^2+Q^2)^{(1/2)}$ rather than sum of S1, S2, and S3
3.050	New Features - None Modified Features - None Bug Fixes: - Improvement for erroneous V L-L values when 0 current load is applied.
3.110	New Features - None Modified Features - None Bug Fixes: - Improvement to prevent communication timeout errors
3.140	New Features - None Modified Features - None Bug Fixes: - Improvement to VLL and power calculations. - Improvement to VAR calculation for power factor dead band function.
3.150	New Features - None Modified Features - None Bug Fixes: - Improvement to In (neutral current) calculation, error in calculation for In only introduced in v3.140. - Improvement to capacitive/inductive symbol for power factor on display.