MAP Software Release Note #68

Topic: EPROM Versions for the 289H LSS Controller Card

General Information:

The Controller card (P/N 9010-0010) or LAN Controller card (P/N 9010-0030) performs most of the tasks which direct the operation of the 289H LSS monitor and its interaction with the PressureMAP software. As new capabilities were added to the 289H, new versions of the firmware EPROM chip on the controller card have been introduced. In addition, new versions have been necessary as suppliers upgrade their products and discontinue old parts.

This document describes the different EPROM versions and their compatibility requirements and capabilities. For instructions on how to upgrade or replace an EPROM chip, please refer to "Firmware EPROM Replacement Procedures" (103123.*HD).

Specifics:

The controller card's EPROM version **must** be compatible with both the microprocessor version, and the on-card modem or LAN communication hardware (network connection). For 289H monitors equipped with the Universal Addressable Monitoring Card (UAMC), the controller card needs an EPROM version that supports the UAMC's expanded addressable communications abilities. For the Sparton Dedicated Replacement Card (SPDR), the 289H monitor's controller card must be equipped with an EPROM version that supports the SPDR's Sparton block pinout translation. Additional information on controller card capabilities is available in spreadsheet format (163SA-*).

The controller card is equipped with one of two microprocessors: V3.3 MCU or V3.5 MCU. The V3.5 replaces the V3.3, which has been discontinued by the manufacturer.

Note: An EPROM chip that is compatible with the V3.3 will **not** work with the V3.5, and vice versa.

The V3.3 controller cards that are currently installed in the field may be equipped with one of the following options: an older 2400 baud modem and B series EPROM; a 9600 baud modem and C series chip; or a LAN Adapter connection and D series chip. The D series EPROM serves as the LAN connection upgrade for both B and C series EPROMs. Please note that there will be no further upgrades in the B series.

A V3.5 controller card may be equipped with either: a 9600 baud modem and E series chip; a LAN connection module and F series chip; or a newer-model 9600 baud modem and G series chip. The F series EPROM serves as the LAN connection upgrade for both the E and G series EPROMs. The 9010-0030 LAN Controller card is equipped with the F series EPROM.

The following current EPROM versions are compatible with the V3.3 MCU:

Code rev.	Baudrate	Change/Option
B09	2400	
B0A	2400	Temp/Humidity sensor reading
C04	9600	
C05	9600	Temp/Humidity sensor reading
C06	9600	UAMC (upgrades C0x)
C07	9600	SPDR (upgrades C0x)
D02	(9600)	LAN Adapter connection
D03	(9600)	UAMC (upgrades D0x); Temp/Humidity sensor reading
D04	(9600)	SPDR (upgrades D0x)

The following EPROMs are compatible with the V3.5 MCU:

Code rev.	Baudrate	Change/Option
E02	9600	
E03	9600	UAMC (upgrades E0x); Temp/Humidity sensor reading
E04	9600	SPDR (upgrades E0x)
F01	(9600)	LAN Controller 9010-0030 (or LAN Adapter); Temp/Humidity sensor reading
F02	(9600)	UAMC (upgrades F01)
F03	(9600)	SPDR (upgrades F0x)
G01	9600	modem module: CH1794/2; Temp/Humidity sensor reading
G02	9600	UAMC (upgrades G01); modem module: CH1794/2
G03	9600	SPDR (upgrades G0x); modem module: CH1794/2

Effective with PressureMAP Version 22/23, the 289H LSS can transmit relative humidity readings collected from System Studies' Relative Humidity/Temperature Sensor to PressureMAP, when equipped with one of the EPROM versions noted "Temp/Humidity" in the list above. (These 4-20mA devices have an initial setup time of up to 25 seconds.)

Effective with PressureMAP Version 23, the 289H can transmit readings from the UAMC and SPDR relay cards, when equipped with the appropriate EPROM versions listed above.

For additional information, call System Studies at the number below or e-mail your request to Technical Support at *support@airtalk.com*.