System Studies Incorporated

Sparton Dedicated Replacement Card

Streamlining the 289H LSS conversion process

Over a decade ago, System Studies Incorporated introduced the 289H LSS™ monitor to provide greater efficiency and adaptability than conventional monitors for meeting the changing requirements of the outside plant. With fewer components to break down, no need for internal programming or backups, and advanced pair diagnostics capabilities, the 289H is a natural choice for replacing older monitoring systems in the field.

Supported by PressureMAP Version 24 software, System Studies' new Sparton Dedicated Replacement Card™ (SPDR) streamlines the process of cutting over from a Sparton monitor to the 289H LSS. The new SPDR relay card (P/N 9800-6116) simplifies changing out the monitoring unit, and that advance saves the telco money on labor costs—which would have multiplied the new equipment costs, but not now. With the SPDR there's no time-consuming rewiring, and no need for lengthy data changes.

The simplified cutover process means just a few steps to perform. Once the Sparton dedicated block's A, B and C cables are unplugged from the Sparton module's J1, J2 and J3 connectors and the 289H is in place, each A, B or C cable connects directly to an SPDR card in the 289H chassis, without the need for special adapter cables. Then PressureMAP's 289H conversion utility automatically adapts the data for each card's installed devices. (Although automatic data conversion capability for the SPDR is effective with PressureMAP Version 24, the card can be installed for use with Version 23 if the data is manually converted.) The SPDR contains relays for up to 36 dedicated Sparton pairs and employs an easy-to-use on-card dipswitch that can be set for A, B or C configuration (as appropriate), to translate the Sparton cable's pinout for 289H monitoring. Labeled LED indicator lights at the front edge of the SPDR identify the installed card's current setting.

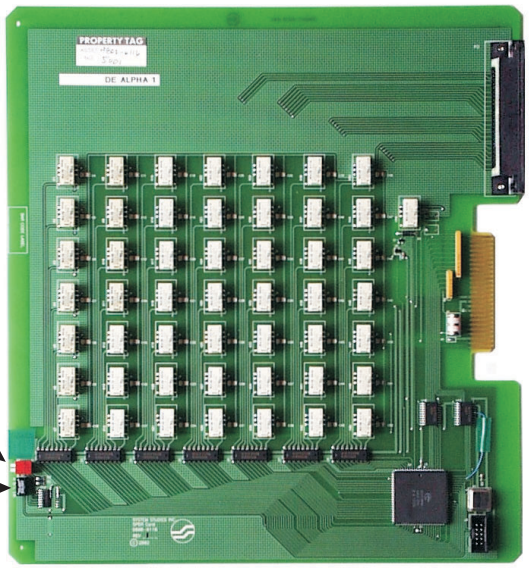
Like System Studies' standard Dedicated relay card, the SPDR allows a pseudo-data tone to be placed on the pairs to prevent them from being stolen. PressureMAP's 289H Diagnostics utility provides the capability to select tone frequency and change or restore default values. (However, because of the Sparton cable's common tip configuration, the ability to route "locater" tone to specific pairs via the SPDR is not available.)

All transducer pairs entering the SPDR card must be protected by central office primary voltage and current protection blocks.

Changing Over with SPDR

Both the full-size 289H LSS monitor and the 289H-M "mini" monitor can be ordered to include the SPDR. The card(s) can also be ordered separately for an existing 289H monitor. Please note that SPDR cards must be placed in the 289H chassis in front of other relay card types, and that they must be ordered (configured) as A, B, C, A, B, C, etc.

To support the SPDR, the 289H must be equipped with the appropriate EPROM version on the controller card. For the most current information on EPROM versions, compatibility requirements and capabilities, please contact System Studies Technical Support.



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The PressureMAP 289H Conversion software translates each Sparton device record's module and input number to the appropriate 289H access number (card and relay number). Before cutting over to the 289H monitor, it is recommended that the Sparton offices to be converted be called first using PressureMAP Version 24, to insure that the device Module and Input# fields are correct. For the 5300B and 5318 monitors, the call will automatically update this information in PressureMAP. Please note that for a 5301A monitor, the module information is not available, so device Module fields must be updated manually. The cutover can then proceed as described in the 289H LSS Installation and Operations manual. During the data conversion process, the user is given the opportunity to edit any assigned access number. (For detailed information on the 289H Conversion process, please refer to the Special Data Entry section of the MAP Data Entry Manual.)

Once the conversion is complete, PressureMAP can begin to collect readings for the new 289H office on a regular schedule.

Specifications

Monitor: 289H LSS, 289H-M LSS

Relays: 50 relays (translating 36-point dedicated Sparton pinout) Setup Requirements: On-board dipswitch for Sparton A, B and C cable configurations

EPROM Requirements: C07, D04, E04, F03 or G03 (or higher)

Cabling Connectors: One dedicated female connector

Power Requirement: 48VDC from LSS backplane

Warranty: 1 year

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