

System Studies Incorporated 289H LSS Monitor

Loop Surveillance System



Sophisticated performance without expensive hardware

Simplicity in design can offer optimum efficiency and versatility at a lower cost. It provides the basis for more performance options now, while opening the way for greater adaptability to the changing requirements of the outside plant in future years.

The 289H LSS™ (Part No. 9800-6302) makes this possible and more. In the years since its introduction, it has proven its dependability and advanced the state-of-the-art of cable pressurization.

Simply stated, the 289H LSS is better than conventional monitors because it's simpler. The reason the 289H LSS is simpler is that it works in partnership with the complex and powerful Management Analysis Program™ (MAP) software. The MAP software—consisting of PressureMAP™, AlarmMAP™, ReportMAP™ and CableMAP™—analyzes data received from monitors to provide a multitude of sophisticated monitoring functions.

Most conventional monitors include components that enable them to perform some basic computing, such as comparing trends and producing rudimentary reports. The 289H LSS leaves the computing to the MAP System. The 289H LSS simply serves as the link between PressureMAP and monitoring devices in the field.

Because the 289H LSS takes its instructions from PressureMAP, it requires less complex on-board microprocessors and fewer CPU memory components. The result: a machine with less components to break down. And there is no need of programming or backups—ever.

How it works

The MAP software calls the 289H LSS every two hours for a full report of all monitoring devices. When the MAP software makes contact, it requests a reading from “pin” number one. The 289H LSS checks this pair, if it is on a subscriber circuit, to see if it's busy. If it is not, the 289H LSS takes an electrical output reading from the device wired to pin one. This reading is then transmitted to the MAP software where it is converted into a pressure or flow reading. The remaining pins are interrogated using the same process.

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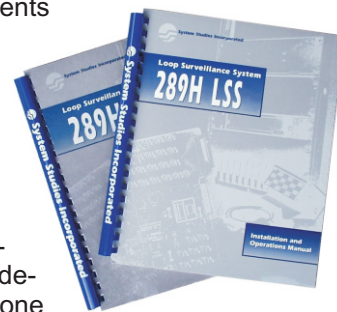


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In addition to providing readings during the normal call cycle, the 289H LSS will alert PressureMAP to possible alarm conditions. This callout function assures that no alarm will go undetected. PressureMAP then performs some sophisticated analysis and filtering of the data supplied by the 289H LSS. The resulting data is made available to the user either by directly or remotely accessing the MAP System. Critical alarm information is distributed automatically minutes after it is received and evaluated.

Cost savings and monitoring advantages

- **Easy Installation** The 289H LSS is less expensive and easier to install than its more complicated counterparts. And because the 289H LSS relies on PressureMAP for data, the cutover from existing monitors is significantly streamlined through PressureMAP's data conversion process.
- **For Sparton Users** A new 36-pair Sparton Dedicated Replacement Card™ further simplifies the conversion process. This card accepts the existing cables used to connect the transducer cross-connect block to the Sparton monitor, eliminating the need for costly re-wiring.
- **No Programming and Data Input** Since the 289H LSS does not have a database, there are no new setup procedures to learn and perform. Also, the need for time-consuming data input is eliminated.
- **No Backups and Restorals** With no database to maintain, the normal precaution of routinely backing up your monitoring system is not required.
- **Reduced Maintenance** Normal maintenance and troubleshooting time associated with monitoring systems is significantly reduced because there is less hardware and fewer circuit boards in the 289H LSS than in conventional monitoring systems.
- **Tone Generation Capabilities** The 289H LSS contains electronic components that make it possible to place a pseudo-data tone on dedicated monitoring pairs to prevent them from being stolen. With PressureMAP's 289H Diagnostics, you can select tone frequencies, change or restore default values, and apply tone to desired pairs.



- **Alert Capabilities** Along with providing readings during the PressureMAP calling cycle, the 289H LSS will also notify PressureMAP when a possible alarm condition is detected.
- **Adaptability** The 289H LSS works with all central office switches on all POTS lines.

The Advantages of Having the Monitoring System Software in the MAP Programs

- **Easily Updated** Conventional monitoring systems are "hardware dependent." This means that any updates or improvements to the system require equipment modifications within each monitor. Because the 289H LSS is "software dependent," every system can continue to benefit from ongoing research and development at System Studies.
- **Centralized Access** To obtain data from any of the 289H LSS monitors in a system, you need to know only one phone number and one password: your login parameters for the MAP software. That's one of the advantages of a centralized database.
- **Centralized Data** Another advantage is that system analysis and office monitoring evaluations are much easier and much less time-consuming to perform with a centralized database. Reports for multiple offices are generated both automatically and manually by the centralized system.
- **Advanced Reading Capabilities** Not only does the 289H LSS read resistive transducers, but it also reads solid-state loop current devices, such as the High Resolution Transducers™. In addition, the 289H offers improved line diagnostics on device pairs for more detailed system information.

289H LSS Specifications

Subscriber point: 25 per board

Dedicated points: 50 per board

Maximum Devices per Monitor: 1000 devices

Modem: 2400 or 9600 baud (depending on version)

LAN Connection: With LAN Controller Card, provides two-way communications between 289H and PressureMAP over company's local area network

Power: 48 VDC +/- 10% 20W

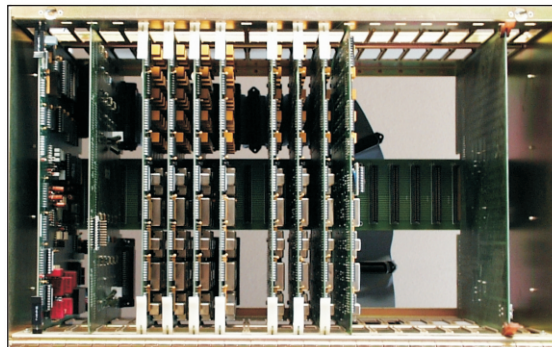
Sensors: Pressure and Flow Transducers (resistive and current loop), Contact Alarms, Contactors, Special application sensors

Size: 21.5" x 12.5" x 12" (23" rack)

Shipping Weight: 39 pounds

Features

- Works with all central office switches on all POTS lines
- Accessed directly by PressureMAP
- No setup to lose
- High speed access to realtime readings
- Tone generation capability
- Can be connected to local area network (LAN) to eliminate calling charges associated with modem communications
- User-definable alert sensitivity level
- Alarm call-out capabilities
- Error correcting protocol
- Self calibrating
- Open pair detection
- Advanced CMOS technology
- One board reads both resistive and loop current devices
- Measures AC and DC resistance leakage from tip to ground and ring to ground
- Measures capacitance from tip to ground and ring to ground
- Measures AC and DC voltage from tip to ground and ring to ground



289H LSS, Management Analysis Program, PressureMAP, AlarmMAP, ReportMAP, CableMAP, High Resolution Transducers, Sparton Dedicated Replacement Card, and the System Studies Logo are trademarks of System Studies Incorporated.

Information and specifications subject to change without notification.