cable pressure AirMAIL
System Studies Incorporated

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Software News Item

PressureWEB 2.0™, supplied with the latest version of PressureMAP™ (Version 27), has been modified to provide even faster performance and quicker response to data changes and updated readings.

Prior PressureWEB releases (Version 1.2 and earlier) relied on PressureMAP's calling schedule to acquire new readings before posting updated information. Now, PressureWEB runs its processes independently so that data changes appear in your browser much faster. In fact, the updates are nearly instantaneous (less than 0.1 seconds).

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State-wide Monitoring Improvement

Wow! System Studies recently completed updating the monitoring systems for an entire state!. We supplied 80-some new monitoring units, all of them equipped with the latest LAN communications equipment. We were fortunate to have worked with some very cooperative and dedicated individuals during the project, providing assistance with installation, data conversion and compliance testing. This project was completed ahead of schedule, and our sources indicate that monitoring capabilities state-wide have never been better.

The company that installed the new monitoring equipment—24 uM260 Micro Monitors, 19 289H LSS monitors and 36 289H-M LSS monitors—now have crews who can concentrate on improving routes and, in some cases, entire offices that were not previously reading. They are also finding time to verify that each route in the various offices has a pressure transducer installed at the endpoint. In the past, crews would spend the day trying to keep monitors up and running, or having to visit the field and take manual pressure and flow readings that were inaccessible from transducers via their old monitoring systems.

We're happy that the installations went in so quickly and that the telco can now concentrate on making additional, lasting improvements in cable pressure protection. But what about you—Do you have the help and equipment that you need—

If you're interested in updating your air pressure system, whether it be PressureMAP software upgrades, air pressure monitors, central office panels or field components, we're here to help.

You can contact the System Studies Field Engineer in your area for assistance, or call us directly for information. We can be reached at our Santa Cruz office on (800) 247-8255.

uM260 Battery Backup Kit

Our first new product announcement for 2010 couldn't come at a better time. It offers the perfect solution for uM260 Micro Monitors installed at locations, such as remote air dryers, where the only available power source is 115V AC. Since the uM260 requires -48V DC power for operation, we're now offering a uM260 Battery Backup Kit (Part No. 9800-4848BBU) that includes a -48V DC power supply and a battery backup unit for the uM260.

If AC power fails at the installation location, the battery unit kicks in and provides uninterrupted power to the uM260 monitor for approximately five hours. It also contains an AC alarm pair which, when wired to the uM260, provides detection and alarming of AC power failure at the installation location. If a remote air dryer fails, you'll now be able to determine if the failure is the result of a mechanical malfunction at the dryer or a power outage. And that's the kind of valuable information you need to expedite the repair.

To simplify installation of a uM260 Micro Monitor at a remote location, the uM260 Battery Backup Kit also includes a small, plug-in termination adapter for the uM260. This adapter accommodates three transducer pairs and three binary contact alarm pairs. The kit also includes alarm and power conductor pairs, power supply cables and a reversible screwdriver. (Please note that the uM260 Micro Monitor, Part No. 9800-6260, must be purchased separately.)

The illustration below shows the kit's components, plus connections into the uM260 monitor. To provide an indication of the size of these items, dimensions are also provided below.

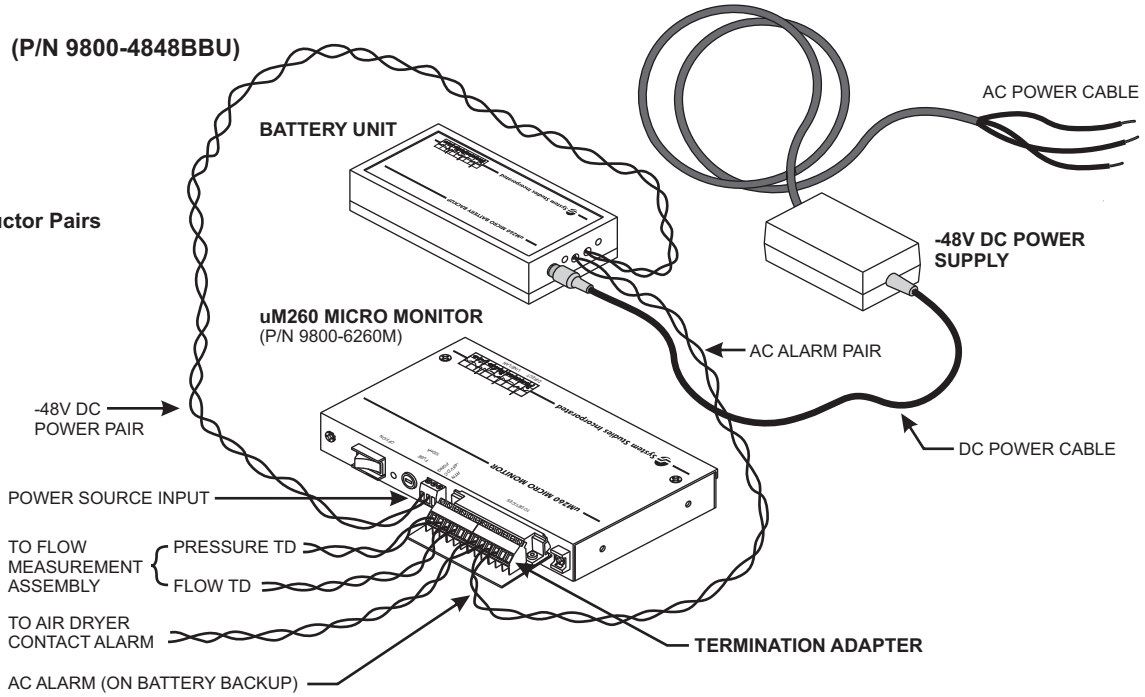
Component Specifications

Battery Unit:	Power Supply:	Termination Adapter:
Length: 6-3/4 in (17.14 cm)	Length: 3-3/4 in (9.53 cm)	Length: 3-1/4 in (8.25 cm)
Width: 3-1/2 in (8.89 cm)	Width: 2-1/2 in (6.35 cm)	Width: 2-1/2 in (6.35 cm)
Height: 1-1/2 in (3.81 cm)	Height: 1-1/2 in (3.81 cm)	Height: 1 in (2.45 cm)

uM260 Backup Battery Kit (P/N 9800-4848BBU)

Includes:

1) **Battery Unit**
2) **-48V DC Power Supply**
3) **Termination Adapter**
4) **Power Supply Cables**
5) **Alarm and Power Conductor Pairs**
6) **Screw-driver**



Start the Year Off Right

With 2010 well underway, now's the time to make some job-related New Year's resolutions. We're not talking about checking smoke detectors or cleaning out your truck—we're talking about specific ways that you can get a better handle on your air pressure system. Here are a few suggestions:

- **Item 1** – Take a close look at all your air dryer contact alarms and make sure they're actually working. Bring the dryer into alarm, and see if the alarm is generated and distributed to the proper personnel. In order for the binary contact alarm to make it to the responding individual(s), everything must be in place and working. The data in PressureMAP must be correct, the office monitor must be up and running, modem or LAN communications must be established, and an actual response needs to take place. Our experience shows that a large number of dryer alarms actually go nowhere. Don't let this happen in your office.
- **Item 2** – While you're in the CO, make sure that the air dryer(s) delivers a minimum of 15 psi to the central office panels. The panels themselves need to be set to 10 psi (no lower). This differential makes it possible for the panel regulators to hold the desired 10 psi output pressure. Failure to provide a consistent panel output of 10 psi jeopardizes adequate cable pressure protection throughout the route. By the way, the most accurate way to set and confirm delivery pressures is to use a portable pressure gauge—not the pressure gauges on the equipment. You'll get the most accurate reading with a hand-held digital pressure gauge.
- **Item 3** – Check all of the EP devices (air pipe endpoint pressure transducers) on your routes. Of all of the transducers used in the air pressure system, these are probably the most important. Make sure they're all above 7.5 psi. If they're not, the reason could be low delivery pressure (see Item 2) or, possibly, an air pipe leak. Adequate delivery pressure is the name of the game.
- **Item 4** – If you have Flow Finders installed in the central office, you can use a Flow Gauge to check the accuracy of the flow transducers on the panels. Some of these transducers might be providing inaccurate readings.
- **Item 5** – It's a good time for a supervisor and technician(s) to step back and take a big-picture look at their offices. How do the offices look today versus a year ago—Which ones are in the worse shape and would benefit most from maintenance—If you have time, you can also zoom in and examine the individual routes in an office. Check the PressureMAP Device History reports to see if there are any pegged flow transducers. You'll get the biggest bang for the leak-locating-buck by going after the high flowing leaks.
- **Item 6** – Take a look at PressureMAP's Alarm Vs. Time of Day Report. This report will help you identify the "wolfers" in your system. These are the devices that give fluctuating readings; they come into alarm (cry wolf), fall out of alarm, cry wolf again, etc. Find the devices that come into alarm 12 to 15 times a month. The alarms generated by these devices are likely the result of physical problems with the device, an incorrect range for the location, or even a bad pair. They don't necessarily mean that your route is in bad shape. By the way, if you don't know how to access the Alarm Vs. Time of Day Report, just call System Studies Technical Support.

Hopefully, performing some or all of the items suggested above will give you a real jump on improving cable pressure protection on your routes or offices. There are times, however, when poor cable protection is the result of other factors, such as a bad design. If this is the case, give us a call. Our engineers can provide whatever level of help you need. Also, we can help with any panels, transducers, or manifolds that need to be replaced. And, finally, we're always available to answer your leak locating questions. Give us a call at (800) 247-8255.