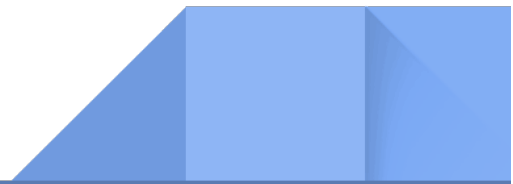




Irrigation Management 2016 Product Updates

March 7, 2016





Contents

- New Sales Phone Line & Email Address..... p. 2
- New Irrigation Management Catalog..... p. 2
- Em50 Solar & Em50G Solar (available now)..... p. 3
- Em50G Solar With User Supplied SIM (available now)..... p. 4
- Dual Head Infiltrrometer (available now) p. 5
- Drain Gauge AutoPump (available now)..... p. 6
- Flow Meters, FM-25 & FM-40 (available soon)..... p. 7
- Pressure Transmitter, PT-100 (available soon)..... p. 8
- PS-1 (price change)..... p. 9
- DataStation (discontinued)..... p. 9
- Introducing IM Sales Team Member Robert Schwartz..... p. 10

New Sales/Support Line & Email Address

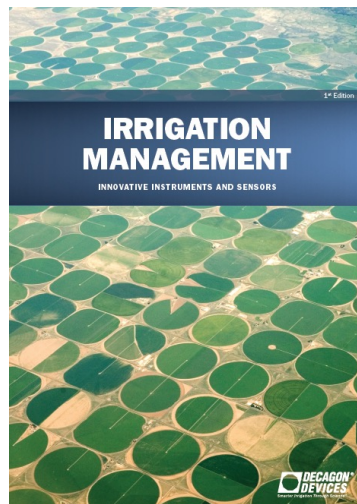
We have created a new phone line for Irrigation Management sales and support, 509-332-5552; we have also created a new email address, irrigation@decagon.com.

New Irrigation Management Website

A beta version of our new [IM website](#) is now live. We'll be adding new content and features rapidly over the next several months, so stay tuned.

New Irrigation Management Catalog (1st Edition)

We recently published the 1st edition of our new Irrigation Management Catalog. For hard copies of this catalog, please submit your request to irrigation@decagon.com. For an electronic version of the catalog, please visit our [IM website](#).



New Solar Em50 & Solar Em50G ([Available Now](#))

Decagon Devices has recently released the Em50 Solar (40831) and Em50G Solar (40832).

The solar data loggers feature a 0.25W solar panel mounted on the front door, and rechargeable nickel-metal hydride (NiMH) AA batteries with a typical battery service life of 2-3 years. **Please note that these data loggers are only compatible with NiMH batteries unless the solar panel is disconnected from the back of the PCB.** Please also note that we will not be offering a solar version of the Em50R, and we will not be offering a solar retrofit for existing Em50 series data loggers.

The solar data loggers should be installed in a location that will ensure that the solar panel receives the maximum amount of sunlight. In the northern hemisphere, this will typically mean that the solar panel will face south. In the southern hemisphere, this will typically mean that the solar panel will face the north,

The standard Em50G Solar (40832) includes the first year of cellular service (USA AT&T) and is limited to a maximum of six cell reports per day.



New User Supplied SIM Em50G Solar ([Available Now](#))

The Em50G Solar is now available with a user supplied SIM option (40818).

With this option, you can source local SIM cards operating on the GSM network. The user supplied SIM option allows cell reporting as frequently as every fifteen minutes. Instructions for sourcing your own SIM and configuring the logger are included with every shipment. This option is ideal for weather stations and frost monitoring applications that demand more frequent cell reporting.



DualHead Infiltrometer ([Available Now](#))

The new fully automated DualHead Infiltrometer (40312) measures infiltration rates and Kfs, the ability of a porous medium (e.g. soil) to transmit water under saturated or nearly saturated conditions.

The DualHead Infiltrometer uses the multiple head analysis approach to correct for 3-dimensional flow without having to guess the soil sorptivity (S) and the soil macroscopic capillary length (α). Field infiltration measurements are a critical part of surface irrigation design and operation. Infiltration rates control the amount of water that enters the soil which in turn impacts the surface runoff. Estimating infiltration rates using 'intake family' tables is useful in some circumstances, but these estimates are no substitute for field measurements.



Drain Gauge AutoPump (Available Now)

The drain gauge AutoPump (40381) is a new pump accessory for the G3 Drain Gauge.

Because the Drain Gauge G3 captures all of the drainage it measures, during high volume flows its reservoir can fill quickly. This is particularly problematic at remote sites where manual pumping may not be possible on a regular basis. The Drain Gauge G3 can handle up to 61 mm of accumulated drainage before the water level comes in contact with the wick. Once water comes in contact with the wick, the water can be pulled out of the reservoir due to capillary rise, resulting in an underestimation of deep drainage. The new AutoPump empties the reservoir of the Drain Gauge G3 when it becomes full. The water can be pumped into bottles on the surface for collection at a later date, or into the field away from the measurement area of the Drain Gauge.

We designed the AutoPump to sit on the soil surface near the access tube of the Drain Gauge G3. The Drain Gauge G3 sensor connects to the sensor port inside the AutoPump case via a standard 3.5 mm stereo jack. A separate cable with a 3.5 mm stereo jack runs from the AutoPump case to the data logger. The sample tube from the Drain Gauge G3 is connected to the AutoPump via a 6 mm push-to-connect fitting on the exterior of the AutoPump case. The internal rechargeable 12V 7Ah sealed lead acid battery will support roughly 15 hours of continuous operation.

Read more about the auto pump in the [G3 manual](#) (pgs. 34-38)



New Flow Meters FM-25 & FM-40 (Available Soon)

Decagon's new flow meter offerings combine the accuracy of positive displacement meters with the reliability and economy of nutating disc technology (FM-40, 40040; FM-25, 40041).

Constructed out of engineered polymer, these flow meters are user serviceable and certified to NSF/ANSI Standards 61 and 372. The meters include a magnetically driven register, a pulse transmitter for digital output (no power required; 1 pulse = 1 gallon), and meter connection fittings. The minimal pressure loss makes these meters ideal for retrofitting existing irrigation systems. We will be offering $\frac{3}{4}$ " and 1" bore sizes (i.e. $\frac{3}{4}$ " and 1" male NPT tailpiece thread). These meters are compatible with all loggers running the latest firmware version. Please note that the FM-25 and FM-40 are not for sale in the EU.



New Pressure Transmitter PT-100 (Available Soon)

Ensure your system is running at the proper operating pressure with the new PT-100 pressure transmitter (40045).

A sprinkler's precipitation profile is a function of nozzle size and operating pressure, and each nozzle size has an optimal operating pressure. If your system is operating outside this pressure range, odds are your distribution uniformity (DU) is low; some areas are over-irrigated while others are under-irrigated. The PT-100 is compatible with all loggers running firmware version 2.20 and greater, Ech2O Utility 1.75 and greater, and DataTrac 3.11.3752 and greater. The PT-100 offers a range of 0-100 psig with a resolution of 0.1 psig. The threaded connection is ¼" male NPT. Please note that the PT-100 is not for sale in the EU.





PS-1 (Price Change)

With the release of the PT-100 (40045), we have lowered pricing on the PS-1 (40653). We will continue to offer the PS-1 sensor for the foreseeable future.

DataStation (Discontinued)

Many of the 900 MHz DataStation's components are no longer available from our suppliers, and with a limited supply left in-house, we have decided to discontinue this product. We will address parts and application needs on a case-by-case basis. A new DataStation board spin incorporating new components would incur unnecessary costs for a product that ought to look toward new design goals (e.g. cell station). As of today, there is no firm timeline for release of a product that will replace the DataStation.

Introducing IM Sales Team Member Robert Schwartz

We would like to welcome Robert Schwartz to the Irrigation Management team at Decagon Devices. Over the coming year, many of you will be meeting or hearing from Robert as he takes on sales orders, tradeshow duties, and customer visits. You can reach Robert directly by email at robert@decagon.com or irrigation@decagon.com. Welcome to the team Robert!

