



Wilger Electronic Flow Monitoring System

***An accurate row-by-row flow meter for
monitoring blockage and variation in
flow on liquid application equipment.***



Row-by-Row Electronic Flow Monitoring System

**For Flow Monitoring
System Manufacturer:**



Installation Type: Retrofit

Revised Jan 2018



WILGER Electronic Flow Meters (EFM)



The new Electronic Flow Meter (EFM), manufactured by Wilger is a compact flow meter that be used row-by-row on liquid fertilizer (or chemical) application equipment for monitoring for any flow blockage, as well as provide the ability to accurately monitor for any changes in flow by row and/or by product(s).

Data & System Compatibility

As the sensor sends out raw RPM data, it can be integrated into many third-party monitor(s) & monitoring systems, both for OEM and aftermarket retro-fit options. Have your monitor service provider contact Wilger, if isn't an option yet.

Flow Meter Capability & Flow Ranges

The sensor picks up RPM from the screw in module, maintains accuracy over a 60:1 flow range with patent-pending jets, providing accurate, workable flow ranges from 0.025 US gpm to 1.5 US gpm without drops in pressure¹.

Cleaning & Maintenance

The flow meter housing is clear, visibly showing any residue or build-up that might occur inside the flow meter, and the entire housing can be opened easily for any cleaning or maintenance that might be required.

All materials used in the EFM are tailored to exceptional chemical resistance & farm conditions.



WILGER Flow Monitoring System



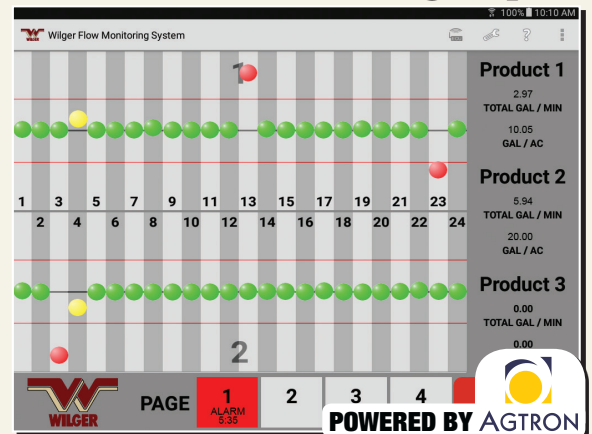
See Any Application Accurately

POWERED BY AGTRON

The new Electronic Flow Monitoring System is a modular system that monitors the liquid flow of application equipment (e.g. Planter/Seeder/Sprayer), and displays the flow on a screen inside the cab. It will visually show the flow rate variation, so any plugs or under/over applications can be swiftly rectified while in the field. This enables applications to be as accurate as possible, applying liquid fertilizer (or other chemicals) as effectively as possible.

The following information is specific to the system using Agtron precision blockage & flow monitoring equipment.

Wilger Electronic Flow Monitoring System + Wireless Flow Indicator App = Ultimate Flow Monitoring Setup



Simple & Intuitive Interface; similar to Wilger Ball Flow Indicators

Simple & Reliable

Perfect for dark liquid or low vis. applications
Built-In WIFI communication

Simple & Powerful App

Responsive & adjustable warnings
Intuitive interface & design
Can run/alarm in background

Easy to Install & Retrofit

Retro-fits onto any existing flow indicators
Wireless app means no in-cab hookup

Unlimited Configurations

Useable on any liquid application equipment (e.g. sprayers, seeders, planters)
Compatible with all ORS Components

Monitors up to 3 Products/Rates

Allows monitoring of three different products or rates
Customizeable layout to space out each section



Flow Metering System Components

Wilger EFM & Manifold Components

Wilger Electronic Flow Meter (EFM)

O-Ring sealed flowmeter with Deutsch connectors

Front View
Paddle Wheel

Back View
Sensor Module



Easily unscrew module from main body for cleaning & maintenance

Patent pending jet system for tighter tolerance & larger operating flow ranges

Connection shown for 4CH EFM sensor wire

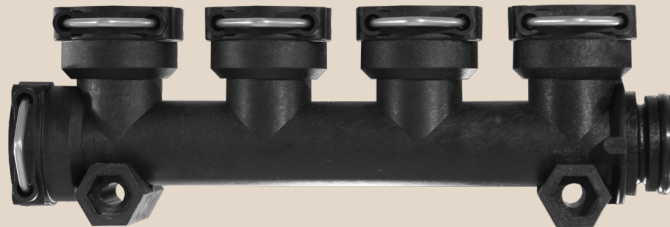
O-Ring Seal (ORS) Inlets & Outlets

Full product offering of ORS inlets and outlets, which are compatible with all ORS female connections.



O-Ring Seal Manifolds & Components

A number of manifolds and splitters from single to 4 outlets per manifold.



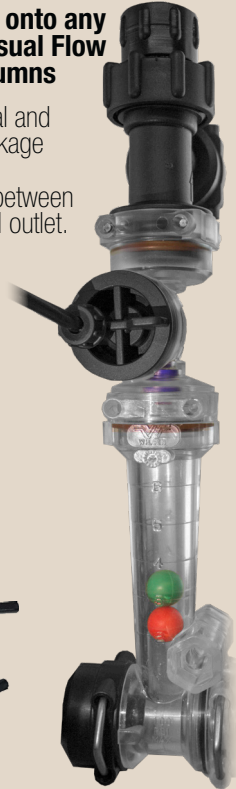
4 EFM Divider (for 16CH Node)

4 EFM Sensor splitter to 16CH Node harness



PLUS: Retro-fits onto any existing Wilger Visual Flow Indicator Columns

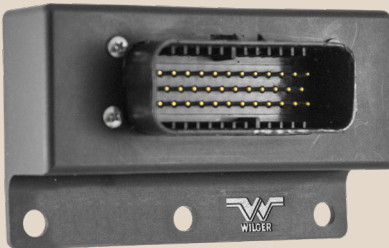
Have both visual and electronic blockage detection; Simply add EFM between flow indicator and outlet.



Agtron Specific Components for Electronic Flow Monitoring System

16 Channel (16CH) Node

Node receives EFM sensor info & transmits to ECU.



16 Channel Node Harness

Connects up to 4 EFM Divider(s) to Node

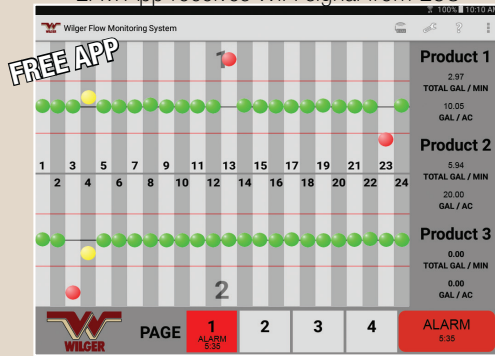


Connects to EFM sensor splitters

Connects to nodes/ECU in series.

EFM System Android App

EFM App receives WIFI signal from ECU



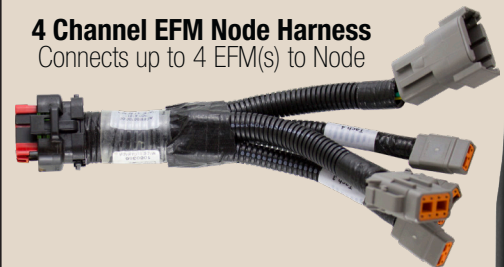
4 Channel (4CH) Node

Node receives EFM sensor info & transmits to ECU.



4 Channel EFM Node Harness

Connects up to 4 EFM(s) to Node



ECU Unit

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WIFI-Enabled controller for EFMS

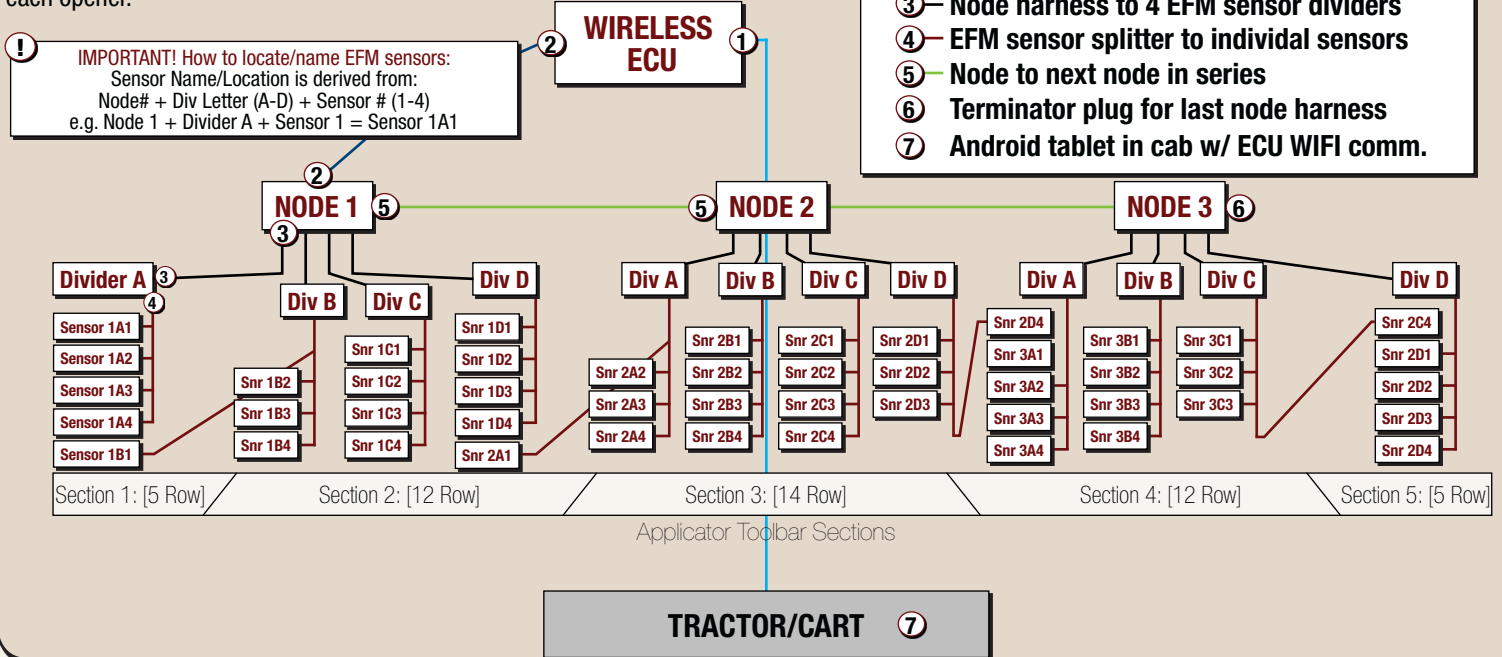


Electronic Flow Monitoring System Configurations

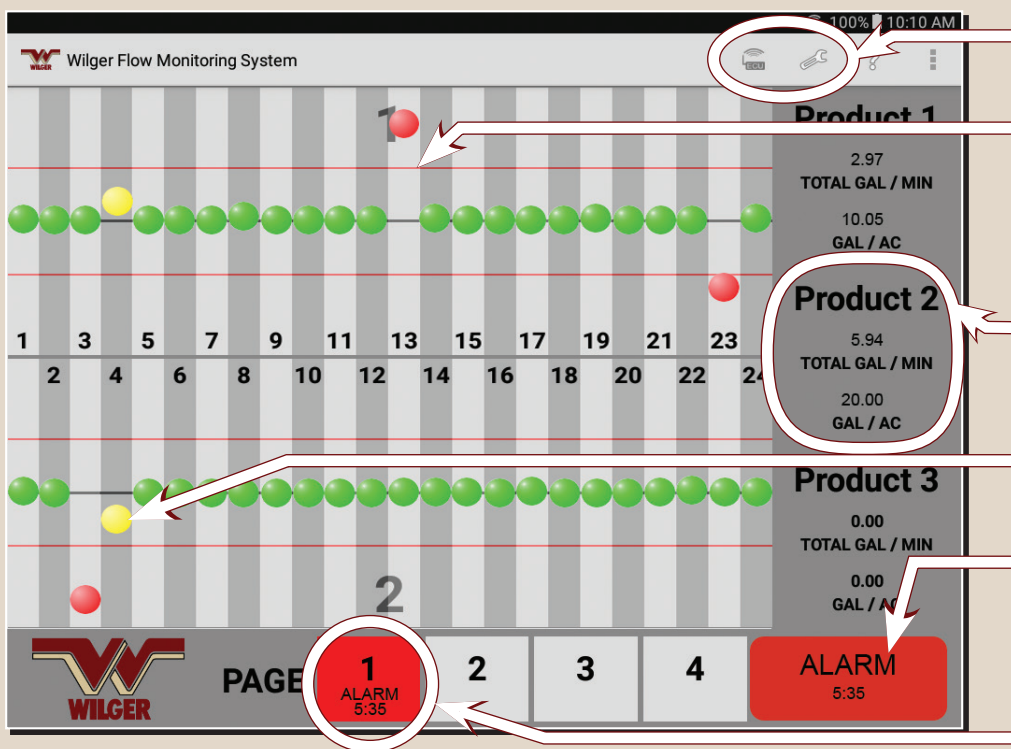
[Recommended] Central Manifold Bank Setup

Example: 48 row air seeder

This air seeder would have a single ECU, connected to 3 nodes (in series) with a node terminator to close the series. Each node is connected to 4 sensor dividers, that are split into 4 EFM sensors (per divider). Each sensor is fed into the flow manifold lines to each opener.



Electronic Flow Metering App



Simple menu and tools for setting up & customizing applications

Red Balls and Red Lines show alarm thresholds. Thresholds are customizable to any %.

Up to 3 different products/rates can be monitored on one EFM system at the same time.

Yellow ball(s) show flows that are approaching alarm threshold.

Alarm is mutable, and can also sound while app is in the background.

App cycles through up to 4 pages (up to 48 sensors per page) at custom page cycle speeds.