

Wilger Electronic Flow Monitoring System

The Electronic Flow Monitoring Advantage

See Any Application with Row-by-Row Accuracy

The Wilger electronic flowmeter (EFM) is a serviceable flowmeter designed & built specifically for agricultural chemical & liquid applications.



Fittings
Swivel
360°



Crystal
Clear
Flowmeter



Superior
Chemical
Resistance



Serviceable
Flowmeter
for Ag.



High
Accuracy
Flowmeter



Patented Flowmeter Jets
Canadian Patent No. 2951789
AUS Patent No. 2017376849
U.S. Patent No. 10,845,228

Crystal Clear Flowmeters

Enables easy system troubleshooting & verification

Monitors Huge Flow Range

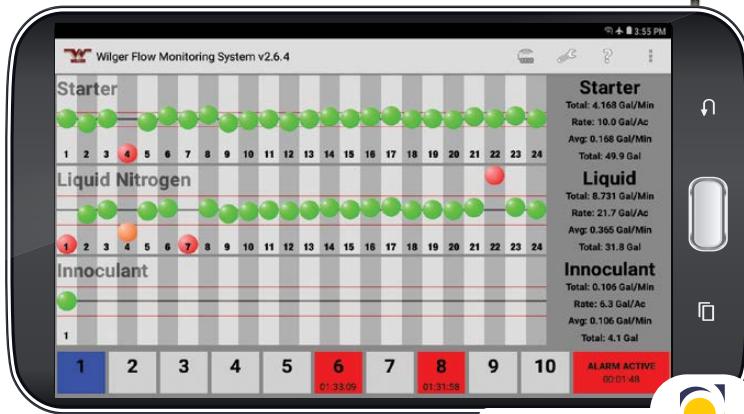
Accurately measures flow rates of 0.04-1.53 us gpm per row

How It Works

High Resolution Hall-Effect Sensor & Ceramic Magnet combo provide accurate pulse frequency to determine flow

EFM Module with Hall-Effect sensor

Flowmeter with ceramic magnet & paddle wheel



FREE EFM APP
POWERED BY AGTRON

The Electronic Flow Monitoring system (powered by Agtron) requires an Android 10 OS Tablet or newer.

Trouble-free Connectors

Keyed Deutsch connectors ensure weather-sealed wiring

Monitor up to 3 Products

Simultaneously monitor up to 3 products within the same system

Monitor Any Sized Equip.

Monitor up to 200 rows or outlets on any equipment

Custom High/Low Alarms

Customize threshold alarms

Custom Screen Layouts

Customize screen layouts between products, sections, or any other way

Chemical Resistance

Clear TPX material provides visual & non-stick surface

Easy Retrofit

Easily retrofits to any existing ORS or Flow Indicator Fittings

Simple Harnessing

Composed of an ECU with dairy-chained product nodes & sensors

WIFI communication

ECU generates WIFI straight into the cab

Build your Electronic Flow Monitoring System with help from www.wilger.net



Use the new EFM system parts kit builder available at www.wilger.net.

Simply input your implement size and layout and receive a parts list & quote. It just takes a minute.

Need help with EFM system SETUP, USE & Troubleshooting? Check www.wilger.net



The manual is accessible online (wilger.net) and within the EFM app via the (?) button. It contains Setup, Troubleshooting, Considerations, Maintenance and more.



The video describes in detail considerations and how to reference sensor locations properly and usage in the EFM system app.



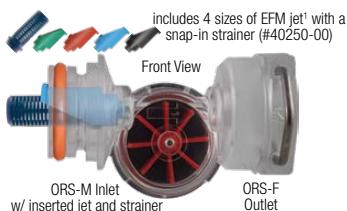
The dedicated page on the website has the most common recent fixes, guides, and troubleshooting information. Check it for quick troubleshooting to save time.

Wilger Electronic Flow Monitoring System Components

Electronic Flowmeters & Jets

A clear flowmeter that connects to any ORS outlets, with an accurate flow range of 0.04 - 1.53 us gpm, using patented flow stabilizing jets.

20580-00 EFM KIT



20580-06 Body Assembly
EFM BODY ASSY
[no jets, wire side showing]



IMPROVED EFM JET DESIGN
'Easier removal & insertion
shipping in 2024'



Product	Description	Part#
Electronic Flowmeter Body [0.04-1.53 us gpm]	Flowmeter Assy Kit	20580-00
Body Assembly (no jets)	20580-06	
Body Only (clear plastic)	20580-01	
Green (up to 0.12 us gpm)	20581-01	
Red (0.1 - 0.31 us gpm)	20581-03	
Blue (0.18 to 0.98 us gpm)	20581-05	
Black (0.6 to 1.53 us gpm)	20581-07	

Replacement Jets (without 50 mesh snap-in strainer)

Green (up to 0.12 us gpm)

Red (0.1 - 0.31 us gpm)

Blue (0.18 to 0.98 us gpm)

Black (0.6 to 1.53 us gpm)

'Jets now include a lip for easier insertion and removal without a strainer'

Required Storage for Flowmeters

Wilger Flowmeters are made of a specialty UV-stabilized compound (TPX™) that maximizes chemical resistance, providing compatibility for a huge range of chemical applications.

As with any plastic, UV exposure degrades the flow indicator columns.

To maximize flowmeter clarity & longevity, completely cover the flowmeters from UV exposure (sun/etc.) whenever possible.

Electronic Flowmeter Manifolds

Pre-assembled manifolds [1-4 Outlets] with a flowmeter and check valve. Simply assemble manifolds, add inlet/outlets, caps and sensor cables.

20644-00 Four Outlet EFM Manifold Kit w/ Check Valve
Kit includes 20574-00, 4x 20580-00, 4x 20556-00



How to Complete a Manifold

Stack manifold sections to desired size.

1 Add ORS inlet or center-fed tee (#20526-00)

2 Add ORS end-cap (2x if TEE is used)

3 Add ORS outlets

& metering orifice (opt.)
Ensure hose/tube connections minimize strain/weight on manifold parts and joints.



Manifold Outlets	Check Valve*	Part#
1 EFM Outlet	Straight	20641-00
	90°	20631-00
2 EFM Outlet	Straight	20642-00
	90°	20632-00
3 EFM Outlet	Straight	20643-00
	90°	20633-00
4 EFM Outlet	Straight	20644-00
	90°	20634-00

*4PSI check valves available: change '1-00' to '-P4'. For ultra-low flow (<0.01 us gpm), 4PSI may be required.

DEMO ECU & Small Planter Kit (16 or less rows, non-expandable)

The following is a Compact ECU DEMO unit, which can be used for showroom/demonstrations, but also functional for planters with 16 rows or less being monitored. The CAN to POWER/USB adapter can be used where WIFI is not an option (tradeshows, etc.). The unit also broadcasts via WIFI.

Product	Description of DEMO Kit Parts	Part#
DEMO ECU	DEMO ECU with built-in 16CH node. One per Demo unit (requires 12v x 1.25 amp)	20625-01
DEMO 16CH Harness	DEMO ECU Harness, with A/B/C/D for up to 4 quad-sensor cables to be connected	20625-02
DEMO Power Supply Harness	CAN to USB (for wired tablet without WIFI) & 12v Power Cable (2-wire, 7' length). USB-A port is powered to supply tablet power.	20625-03
Quad-Sensor Cable	A normal quad-sensor cable, used in any Wilger EFM systems via 6-pin connector. Connects for the A/B/C/D of 20625-02. Order 4x 20585-00 for full 16 sensors.	4x 20585-00
Antenna (7")	If ECU connection is via WIFI, an antenna should be used to connect to the tablet.	20603-03
EFM Manifolds	1,2,3, or 4-outlet manifolds with check valves and an included EFM flowmeter. Simply order inlet/outlets/tee and end caps to complete manifold.	20644-00 (4-outlet)



Example 16-row
manifold for
demonstration

Compact ECU
parts not to scale 20625-01



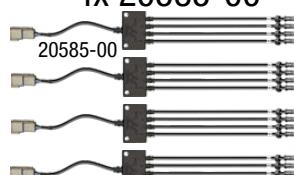
20625-02
DEMO ECU
Product Harness*

*Demo harness is not expandable

20625-03
CAN to 12v
Power Harness

Want to show what the system looks like, without a pump?
Download the app, enter info, and plug in some example sensor information, and run the app in TEST/DEMO mode. (Simulated info)
Contact Wilger for more info.

Quad-sensor cable
Connects to A / B / C / D
4x 20585-00



EFM DEMO System Parts Checklist	
ELECTRONICS Parts	PLUMBING Parts
<input type="checkbox"/> 1x DEMO ECU (#20625-01)	<input type="checkbox"/> 4x 4-Outlet Manifolds (#20644-00)
<input type="checkbox"/> 1x Demo Product Harness (#20625-02)	<input type="checkbox"/> 1x ORS Tee (#20526-00)
<input type="checkbox"/> 1x Demo Power/USB Cable (#20625-03)	<input type="checkbox"/> 1x 90° 1/2" Hose Inlet (#20513-00)
<input type="checkbox"/> 1x Antenna (#20603-03)	<input type="checkbox"/> 16x 1/4" Push-in-tube (#20516-00)
<input type="checkbox"/> 4x Quad-sensor cable (4x #20585-00)	<input type="checkbox"/> 2x End Cap (#20521-00)
<input type="checkbox"/> 1x Android Tablet & Mount (non-Wilger) (e.g. Samsung Tab A8)	<input type="checkbox"/> 16x Metering Orifice (#21500-V03)
	<input type="checkbox"/> 1x 5GPM Electric pump (non-Wilger) Small water tank w/ plumbing