

Quantity	PART#	Description	Extra Information
1	20603-00	ECU Base Kit	incl. 20' battery harness, terminator, ECU, ECU antenna
1	20621-00	16CH Node Klt	incl. 16CH Node, 16CH Node Harness, 4x Quad-sensor cable
1	20612-00	16CH Node Harness Cap	Used to capping unused 16CH node harness connectors.
as req'd	20615-00	Ext. Harness [NODE to SNR]	6' Extension Harness [6-pin], NODE to QUAD-SENSOR CABLE
as req'd	20616-00	Ext. Harness [NODE to NODE]	12' Extension Harness [8-pin], NODE Harness to NODE Harness

Manifold, Plumbing & Auxiliary Parts List

Quantity	PART#	Description	Extra Information							
3	20634-00	4 Outlet EFM Manifold Kit	incl. 4-Outlet manifold, 4 EFM assembly kits (incl. jets), 4x Check Valve							
0	20633-00	3 Outlet EFM Manifold Kit	incl. 3-Outlet manifold, 3 EFM assembly kits (incl. jets), 3x Check Valve							
1	20576-00	ORS Manifold Strainer	One strainer per Manifold Feed.							
2	20521-00	ORS Manifold End-cap	Two used per center-fed manifold.							
1	20526-00	ORS TEE w/ 1/4" NPT-F*	*1/4" NPT Port comes sealed; must be drilled out to be used.							
1	205 XX -00	ORS Inlet Fitting	ORS Inlet must be selected from catalog by preference (up to 1").							
12	205 XX -00	ORS Outlet Fitting	ORS Outlet must be selected from catalog by preference.							
12	21500-VXX ORS Metering Orifice ORS metering orifice size must be selected by required fl									

Each EFM (36 total) has a sensor cable plugged into it. When powered, each EFM sends signal through the Product Node Harness, to Product Node, to ECU.

From ECU, wireless transmits to an Android tablet, and displays flow rate and other information to user.

Part No. 12 Outlet EFM Plumbing Manifold Assembly Overview, 1-product

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Item Description Flow Monitoring Manifold System, 12 Total Outlets ORS Manifold Plumbing, 1 Section Layout (12 outlet/product)





Manifold Breakdown, 12 Outlets PRODUCT 1



Manual ON/OFF **Check Valve**

When 'ON', acts like check valve. When 'OFF', turns off flow for maintenance/etc.



Flowmeter Jetpatent pending

Stabilizes the flow across the flowmeter paddle wheel for more accurate and consistent readings Color coded to flow range. (Green/Red/Blue/Black)

Flowmeter Bodypatent pending

Sensor is inserted into [rear side] housing. Relays pulse feedback to product node.



ORS Outlet/Inlet Fittings

A variety of sizes and types of fittings can be used from the O-ring Seal (ORS) outlet family. From Hose Barbs, to threads, to quick-connect tube.



ORS Metering Orifice [Optional*]

If manifold is being used to meter liquid flow, use orifice. If metering orifice exists in system elsewhere, ignore ORS metering orifice.

[Optional] ORS Strainer [not to scale] 50 Mesh ORS Strainer Assembly



ORS Tee [not to scale] Center-feeds a plumbing manifold with an ORS Inlet



ORS Manifolds [not to scale]

O-ring seal manifolds are available in 1-4 outlet varieties. Common U-clip design connects to any ORS fittings.



ORS End-Cap [not to scale] An end-cap is used to terminate any manifold end.



Manifold, 12 Outlets

FLOW



[Back View] No sensor cable Part No. EFM Plumbing Manifold, 12 Outlet

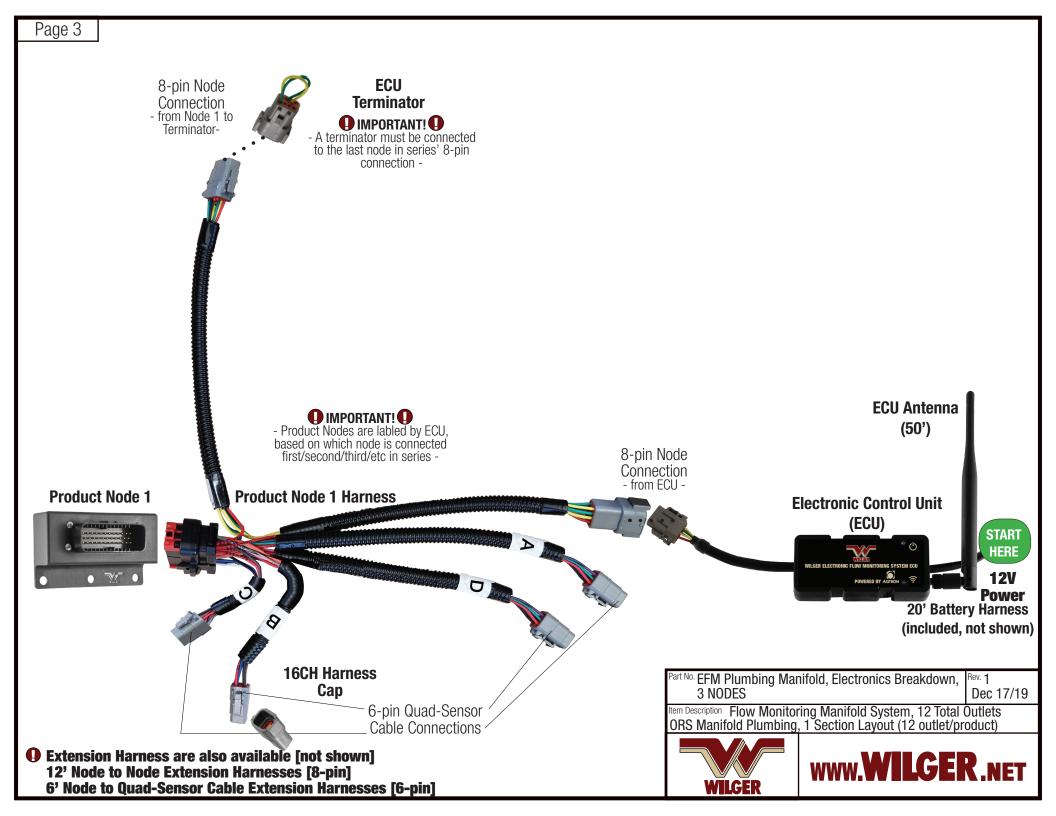
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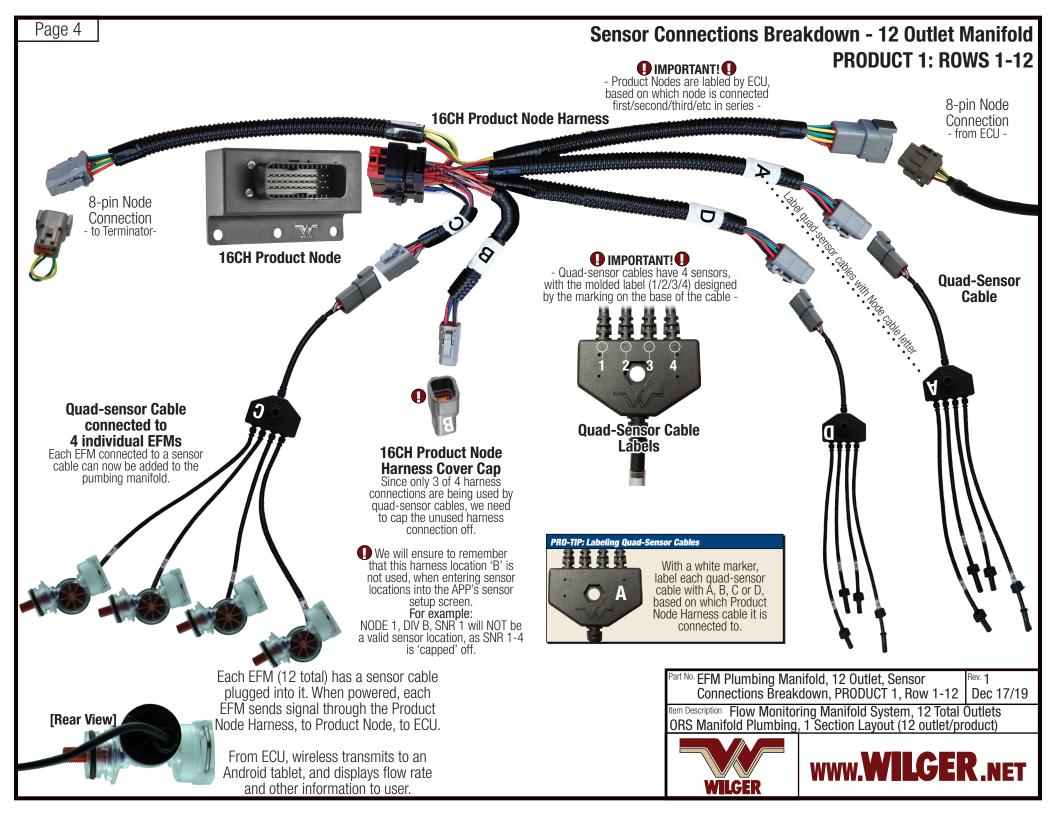
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NOTE: The following may look different depending on app version being used, but in essence, will be the same. Follow the manual for the most up-to-date reflection of the app.

enter each respective product sensor in it's correct position, relative to the ECU.

have to be entered accurately within the app to reference properly on the display.

How To Label Sensors For Entry Into APP - PRODUCT 1, Outlets 1-12

Using NODE 1

"Section 1": 12 Outlets

We have to 'label' a sensor, based on its location. The label is derived from its:

PRODUCT NODE#: NODE 1

 Product Nodes are labled by ECU, based on which node is connected first/second/third/etc in series -

QUAD-SENSOR CABLE DIVIDER [DIV] LABEL: A / B / C / D

● IMPORTANT!

- Quad-sensor divider labels are labeled on the node harness itself, labeled with either an A. B. C. or D -

SENSOR CABLE LABEL: 1/2/3/4

○ IMPORTANT!

- Sensor cable labels are molded (or labeled) on the actual quad-sensor cable, with either a 1/2/3/4. Ensure you refer the sensor label correctly.

For simplicity, for a 12 outlet implement with 3 products, it will show on one screen, as 12 rows and 3 products. Electronic Flow Monitoring Sensor Setup 7 8 9

the layout of the outlets on up to 10 'section' pages.

1 2 3 4 5 6 7 8 9 10 Product 1 2 3 Starter Change

After completely setting up the ECU Settings Screen , enter the Sensor Setup Screen , which allows you to

While sensors do not have to be connected in consecutive order as laid out on your application implement, they do

The below example screen is only ONE depiction of how to set a screen up. For convenience, you can customize

	NODE		DIV]	SNR			NODE		DIV] [SNR			NODE] - [DIV		SNR
1	1	-	С	Æ	1		9	1		Α	Æ	1			N/A	-	Α	Æ	1
2	1	-	С	Æ	2		10	1		Α	Æ	2			N/A	-	Α	Æ	1
3	1	-	С	Æ	3	١.	11	1	-	Α	Æ	3	L		N/A	-	Α	Æ	1
4	1	-	С	Æ	4		12	1		Α	Æ	4			N/A	-	Α	-€	1
5	1	-	D	Æ	1	'		N/A	-	Α	Æ	1	\		N/A	-	Α	Æ	1
6	1	-	D	Æ	2			N/A	-	Α	Æ	1			N/A	-	Α	Æ	1
7	1	-	D	Æ	3			N/A	-	Α	Æ.	1			N/A	-	Α	Æ	1
8	1	-	D	Æ	4			N/A	-	Α	Æ	1			.VA		How to	Rea	ad the

Physical Row Description

This is manually added to depict which row this is on the implement.

For example, if a section begins at row '17', this cell can be entered as "17", etc. In this example, it began at **ROW 1**.

[NODE] PRODUCT NODE

If the sensor is connected through the PRODUCT NODE #2 harness, ensure under NODE. it is listed as '2'.

Ensure a sensor's [NODE] corresponds with its correct NODE #.

In this example, sensors 1-12 for Prod 1, began at **NODE 1**.

[DIV] QUAD-SENSOR CABLE HARNESS LABEL

Select A / B / C / D based on the corresponding node harness cable that a quad-sensor cable is attached to.

In our example, the first rows are attached to **DIV C**, as shown in the system overviews.

[SNR] SENSOR CABLE LABEL

Depending on the sensor cable's number (1/2/3/4) that is molded into the quad-sensor cable housing, enter the sensor number with the corresponding outlet.

In our example, **SNR 1** is the first row of product on the implement.

How to Read the Sensor Location (Eg. Location 1A4)

After entering your sensor locations into the app, as you'd like them laid out on pages 1-10, you can verify each line of the example as follows:

Outlet 12 is connected to SENSOR 4 or [SNR 4] on the quad-sensor cable, on the Node Harness Cable 'A' or [DIV A], which is connected to Product Node 1 or [NODE 1].

Part No. EFM Plumbing Manifold, 12 Outlet, Sensor Connections Breakdown, Product 1, Outlet 1-12

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