



Universal Radar Interface (URI)

Part number AE6644 Universal Radar Interface (URI) is a module that can be used as an amplifier as well as a divider of all radar inputs. It has the capability of being used on virtually all common agricultural electronics. Some of the examples include Raven™, Micro-Trak®, Hiniker® and Rawson® controls. With its multiple outputs, it is possible to run several pieces of equipment all at the same time. This includes dividing the signal frequency down at two different rates where it is necessary and leaving one output signal at the same rate as a normal radar output signal. With the right wiring combination, the URI can match up any radar gun to your existing equipment. Call your nearest Ag Express Electronics service center with your combinations and we'll get you what you need.



Operating Instructions

The URI has two different connectors on it. The 4 pin AMP connector is to be connected to the radar. The pin out is as follows for the 4 pin AMP connector.

1. Ground – Black Wire
2. Radar Signal In – White Wire
3. +12V out – Red Wire
4. No connection

The 8 pin Metri-Pak connector will be connected to the various monitors that need to be hooked up to the radar gun. The URI has three different output signals available. Two of which are adjustable by selecting the appropriate switch setting inside the case. One output is set at a constant and is not adjustable. The pin out for the 8 pin connector is as follows.

- A. +12V in (2) – White Wire
- B. Ground In (2) – Brown Wire
- C. Ground in (1) – Black Wire
- D. +12V in (1) – Red Wire
- E. Signal out (1) – Green Wire
- F. Common out (-) (3) – Yellow Wire
- G. Signal out (+) (3) – Orange Wire
- H. Signal out (2) – Blue Wire

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Inside the case are two selectable switches that will determine the output signal of Signal out (1) and Signal out (2). Use a small flat screwdriver to make these adjustments. The division ratios are as follows.

- | | |
|-------------------|------------------|
| 0 – Divide by 100 | 8 – Divide by 8 |
| 1 – Divide by 1 | 9 – Divide by 9 |
| 2 – Divide by 2 | A – Divide by 10 |
| 3 – Divide by 3 | B – Divide by 16 |
| 4 – Divide by 4 | C – Divide by 22 |
| 5 – Divide by 5 | D – Divide by 23 |
| 6 – Divide by 6 | E – Divide by 28 |
| 7 – Divide by 7 | F – Divide by 29 |

Refer to Figure 1 below. Turn switch (S1) to change the ratio of Signal out (1) and switch (S2) to change the ratio of Signal out (2). Signal out (3) is set at a constant divided by 9 signal ratio. It's most commonly used for Micro-Trak® systems. The most common divide by signal ratios are as follows.

- Divide by 100 Raven™ Controllers
- Divide by 1 All radar compatible controllers
- Divide by 2 Micro-Trak® and SED® Field Controllers
- Divide by 3 Orthman® Controllers
- Divide by 5 Orthman® Controllers
- Divide by 9 Micro-Trak® Monitors
- Divide by 10 John Deere® (Raven™) Spray Controllers
- Divide by 16 Hiniker® Controllers

The URI will not change from one setting to the other without resetting the microcontroller. To do this, you must shut down power to the URI and restart it by turning all controllers off at the same time and turning them back on. This should reset the URI and give it a new divided signal ratio.



Figure 1

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