Wapiti Micro Systems

Right O'Way

Emergency Preemption System




ENGINEERING

The Right O' Way Emergency Preemption system is a reliable and accurate siren based preemption system that is comprised of a siren detector and a processor unit located in the cabinet. The detector can be pole, mast arm or span wire mounted for each approach of traffic facing the direction of oncoming vehicular traffic. As the emergency vehicle approaches the intersection, the siren of the emergency vehicle is detected and the signal is sent to the controller, which takes the appropriate action as programmed. A visual indication can be activated as part of the controller/cabinet configuration to indicate to the preempting vehicle that it has control of the intersection.

The preempt system consists of a siren detector, one for each direction of traffic flow, and a processor unit that can handle up to 4 inputs for a 4-way intersection. The processor unit has 4 test buttons, and 4 indicator lights on the front panel. The system is equipped with a real time clock, a non-volatile memory, and a USB port.

Events are logged and can be retrieved through the USB port.

Right O' Way doesn't require calibration nor configuration performed by the user.

FEATURES

- Detects Yelp, Wail and Hi-Lo siren modes.
- Simplified installation and setup requiring no programming.
- Works with NEMA TS1 & TS2, 170 and 2070 controllers.
- Processor card compatible with exsisting detector racks.
- Test buttons provided with indicators lights to test preempt functions.
- Software to log and operate system. Windows based for PC and laptop.
- Internal Lithium battery backs up events, time and date information.
- Designed for maximum performance with a Class A siren specification.
- Optional Ethernet
- Can be configured for portable trailer mounted traffic signal control from DC or AC power.
- Power LED indicates the systematic detector status.
- Now works with Atlas detectors.

BENEFITS

- Decreases response time for emergency vehicles; increasing safety and saving lives!
- Lower cost than other types of preemption
- Uses existing sirens - does not require additional costly emitters in/on every vehicle
- Allows for other communities to be able to use system without additional equipment
- Preempts reliably in heavy snow, rain, or fog.
- Cannot be "blinded" by direct sunlight.
- Easy to install detectors

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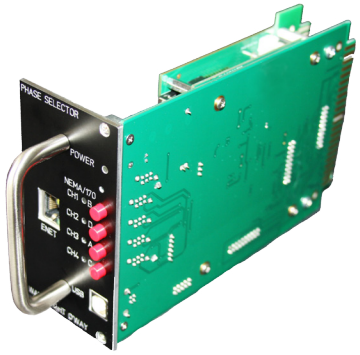
R.O.W. PREEMPTION

PROCESSOR CARD



INTERFACES

4 analog microphone inputs
4 optically isolated preempt outputs
4 Confirmation lights with AC control

STATUS AND CONTROL

4 push button switches - one per channel
4 LED indicators - one per channel
1 LED Power indicator - Power ON

COMMUNICATIONS

USB communication port
Optional Ethernet

SPECIFICATIONS FOR RIGHT O' WAY SYSTEM

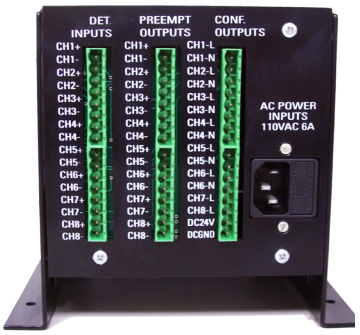
ELECTRICAL

INPUT VOLTAGE: 120VAC 60HZ with AC control
or 12~24 VDC with External DC supply

PHYSICAL

STANDARD EDGE CARD
6 1/2 x 4 1/2 x 2 5/16

HOUSING UNIT DIMENSIONS (BLACK BOX)
6 3/4 x 7 1/2 x 5 3/4
less handle and connector



DETECTOR FEATURES

- Fully weather-resistant for consistent operation in severe environmental conditions. Atlas or TOA detectors
- Corrosion-resistant stainless steel mounting hardware for easy installation in mast arms, poles and span wire.
- Dust and moisture-resistance.
- Detector color can be changed for decorative pole installation (additional cost)

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