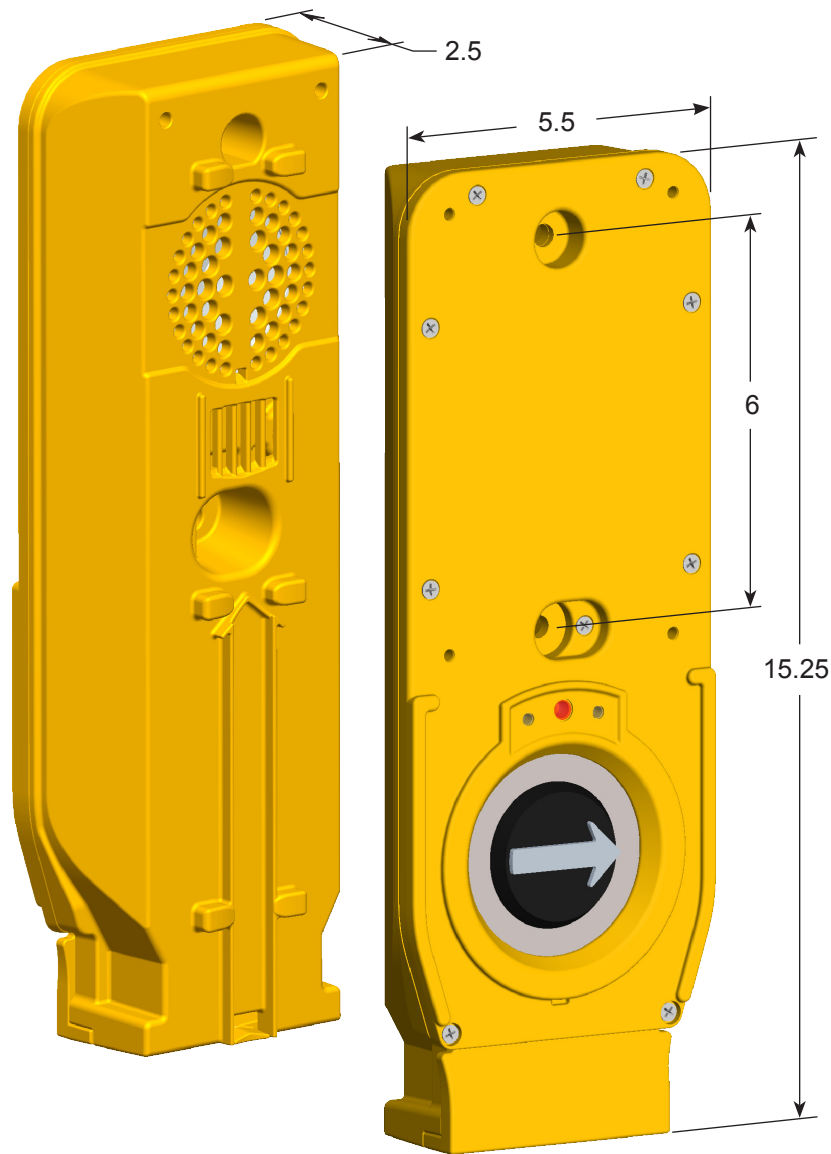


EN2 – EZ Communicator Navigator 2 Wire Push Button Station



The EZ Communicator Navigator 2 Wire Push Button Station (EN2 PBS) is the pedestrian interface to the EZ Communicator Navigator Accessible Pedestrian System. A system includes a Central Control Unit (CCU2EN), an E-Configurator, and up to 16 Push Button Station (4 maximum per channel). The EN2 PBS provides valuable information and cues via both a vibrating arrow button and audible sounds making the intersection accessible for all pedestrians. All sounds emanate from the back of the unit. A sunlight-visible red LED latches "ON" to confirm the button has been pushed. The EN2 PBS includes the body (shown), sign, ADA compliant push button and mounting hardware.

By interfacing with the CCU2EN that installs in the traffic control cabinet, the EN2 PBS can provide the following standard features:

- Confirmation of button push via latching LED, sound, and tactile bounce
- Direction of travel (with extended button push)
- Standard locating tone during Don't Walk (and Clearance if desired)
- Cuckoo, Chirp, Rapid Tick, Verbal, or user customized voice messages during walk. A total of 10 walk sound options are included with an additional 2 locations for custom voice messages / walk sounds
- Vibrating button during walk
- Choice of 4 locating tones, custom sound, or verbal countdown during PED clearance
- All sounds automatically adjust to ambient over 60dB range
- Most sounds have a minimum and maximum volume independently set
- Sounds are synchronized across all PBSs
- Extended button push can turn on, boost volumes, and/or mute all sounds except those on the activated crosswalk
- Can provide pre-configured special messages played throughout the entire intersection upon a central system activated signal (preemption)
- Custom audio messages easily changed via USB port
- Firmware updates provided through USB port
- Independent ambient adjustment setting for the locate tone which allows fine adjustments for low ambient conditions
- Two separate program configurations with all options available which can be switched via external input

All yellow color unit shown for clarity. Standard unit has Black base.

Operating Specifications

| Parameter | Rating |
|-----------------------------|------------------------------------|
| Operating Temperature Range | -34°C to +74°C (-30°F to +165°F) |
| Storage Temperature Range | -45°C to +85°C (-50°F to +185°F) |
| Operating Force | 3.0 lbs Maximum |
| MTBF | 3,000,000 hours |
| Switch Operating Life | Greater than 20 Million Operations |
| Maximum Volume | 100 dB @ 1 meter |
| Minimum Ambient Sound | 37 dBA |
| Audio Quality | 3% THD plus Noise @ 1 kHz |

Design Compliance

| Test Type | Compliance |
|--------------------------------|--------------------------------|
| Functionality | MUTCD 2009 - 4E |
| Temperature and Humidity | NEMA TS 2 |
| Transient Voltage Protection | NEMA TS 2 |
| Transient Suppression | IEC 61000-4-4, IEC 61000-4-5 |
| Electronic Noise | FCC Title 47, Part 15, Class A |
| Mechanical Shock and Vibration | NEMA TS 2 |
| EN2 PBS Enclosure | NEMA 250 - Type 4X |
| Electrical Reliability | NEMA TS 4 |

Notes:

1. Applicable sections only of reference standards.
2. All specifications are subject to change without notice.
3. All specifications are Typical unless otherwise specified.

The 2 Wire Navigator's preferred field wiring is to have a pair of wires (+ and -/common) for each CCU2EN channel with from one to a maximum of four Push Button Stations per channel. Polara cannot guarantee a 2 wire system will work properly in all instances, especially if a single common to the buttons and signal lighting is shared. Each case will have to be tried and proven because it depends on the condition of the wires, splices, etc... In the event the 2 Wire system does not work, Polara will swap it out for a 4 Wire system as long as there is no damage to the units.

Terminal screws on each EN2 PBS include washers (clamping plates) intended for bare wire. Crimp Terminals are not recommended.

EN2 5 A N 0 - B -BD-WTT-EB

Additional Available Options

Button Options

- NA - No Arrow
- BD - Bi-Directional Arrow

Wood Pole Mount

- WTT - Threaded Conduit Hole on Top Side

Other Options

- WPC - with Pole Cap
- ES - External Speaker Option
- EB - External Button Option

Body Color

(Base is always black. Lid color is designated by -B, -G, or -Y.)

- B - Black Front
- G - Green Front
- Y - Yellow Front

Audio Message Options

- 0 - Standard Messages
- 1 - Custom Messages

Braille

- N - No Braille on Face Plate
- B - Braille on Face Plate

Face Plate

MUTCD Compliant

- V - 9x12 R10-3
- U - 9x12 R10-3b
- T - 9x15 R10-3e

Non-MUTCD Compliant

- A - 5x7 - International
- B - 5x7 - Informational
- C - 9x12 - Countdown
- D - 5x7 or 9x12 - International Sign
- O - (Letter O) - No Sign

Size of Face Plate

- 5 - 5" x 7 1/4"
- 9 - 9" x 12"
- 3 - 9" x 15"

Navigator Family

- EN2 - EZCommunicator Navigator 2 Wire Push Button Station

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