Navigator APS - *EZ Communicator*
The next generation of APS

Your APS information should be accessible to you!!
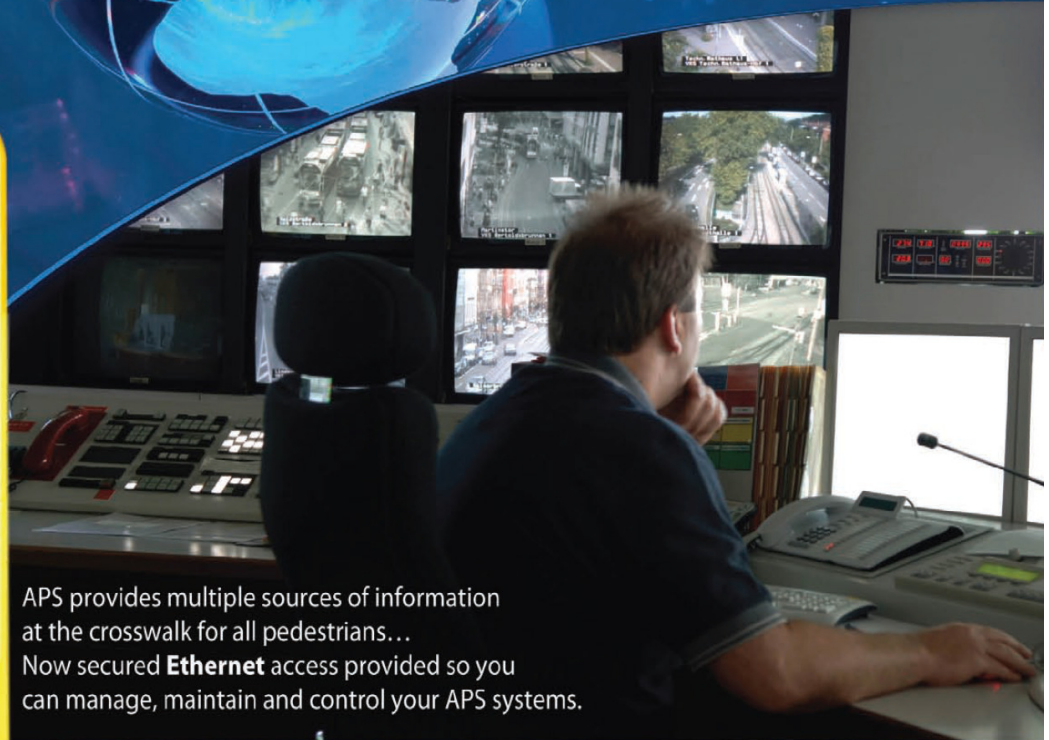
START CROSSING
Watch For Vehicles

DON'T START
Finish Crossing If Started
FLASHING

STEADY
DON'T CROSS

TO CROSS →
PUSH BUTTON

APS provides multiple sources of information at the crosswalk for all pedestrians…
Now secured **Ethernet** access provided so you can manage, maintain and control your APS systems.

EZ Communicator is a fully integrated Accessible Pedestrian System. It offers multiple audible indications and a vibro-tactile indication to clearly identify to ALL Pedestrians the information needed to Navigate a crosswalk.

User Benefits:
Ambient noise controlled locator tone, easy to activate 2" ADA button with a raised arrow, high quality digital audio messages with automatic volume adjustment to ambient noise levels as well as vibro-tactile walk phase indication. Meet & exceeds ADA, MUTCD, TAC & PROWAAC guidelines

Agency Benefits:
- Backward compatible with the Navigator 2-Wire System
- Easy Installation (no need to open front of unit)
- Easy maintenance and changes – Sounds, Voices and Software can now be uploaded via secure USB port at the push button station
- Multiple ways to program, configure and save settings (Configurator, Laptop USB at unit or in Cabinet at CCU, & more coming!)
- Multiple ways to easily access status and condition of installed equipment
- Independent Lab tested to meet TS2 and NEMA requirements – ensures you get the most robust design on the market
- Unmatched Digital Audio Quality
- Several levels of Conflict Monitoring to prevent false walks

Installer/Technician access the system at the intersection via….

Configurator   Lap Top

POLARA
Setting A Higher Standard

Full ADA, MUTCD 2009 and TAC Compliant
Backward Compatible with existing Navigator 2-Wire System

Operating Specifications

Parameter	Rating
Backward Compatible	Full compatibility with Navigator 2-wire System Products
Operating Modes	EN2 (EZComm) or N2 (Navigator)
Maximum Number of Pedestrian Stations	16 ADA Compliant Push Button Stations per EN2
Operating Temperature Range	-34C to +74C (-29°F to +165°F)
Storage Temperature Range	-45C to +85C (-50°F to +185°F)
Operating Force	3.0 lbs Maximum
MTBF – CCU2	2,000,000 hours
MTBF – PSM2	2,500,000 hours
MTBF – EN2 (PBS)	3,000,000 hours
Switch Operating Life	Greater than 20 Million Operations
Audio File Updates	Via Secure USB Port
Microcode Updates	Via Secure USB Port
Sound Synchronization	All Sounds are Synchronized
Maximum Volume	100 dB @ 1m
Automatic Volume Range	Automatically Adjusts to Ambient Over a 60 dB Range
Volume Over Ambient	Adjustable up to 10 dB
Minimum Ambient Sound	37 dBA
Locate Tone Volume	Adjustable from -6dB to +6dB Over Ambient in 3 dB Steps
Audio Quality	2% Total-Harmonic-Distortion Plus Noise @ 1 kHz
External Button Input	Supports Additional Buttons for Bicycles or Horse Crossings
Second Audio Output	Supports Beaconing or Ping-Pong
False Walk Detection	Built-in – Four Independent Checks
Health Monitoring	Built-in – PBS Health Check Every 30 Seconds with Fault Recording
Ethernet Interface (CCU2EN Only)	10/100BASE-T, Built-in Server-Host with Password Protection
Extended Push Priority	Mutes Entire Intersection Except the Selected Crosswalk
Extended Push	0 to 6 Seconds in 0.5 Second Steps
Multiple Languages	Maximum of Three Languages Selected via Extended Push
Intersection Broadcast	All PBS's Simultaneously Broadcast Special Message

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 6100-4-5
Electronic Noise	FCC Title 47, Part 15, Class A
Mechanical Shock and Vibration	NEMA TS 2
CCU2 Enclosure	NEMA 250 – Type 1
PSM2 Enclosure	NEMA 250 – Type 1
PBS Enclosure	NEMA 250 – Type 4X
Electrical Reliability	NEMA TS 4

Notes:
1) Applicable sections only of referenced standards.
2) Specifications subject to change without notification.
3) All specifications are Typical unless otherwise specified.

All the great features of the Industry Leading Navigator 2-Wire Systems, with...

- Up to 16 Pedestrian Push Button Stations (PBS)
- PBS Enclosure rated NEMA 250 – 4X
- High quality pure Digital Audio
- Built-in Push Button Conflict Monitoring
- Health Check of all PBS's every 30 seconds
- Ethernet access to PBS Configuration and Health Check results
- Ethernet setting of PBS Configuration
- Ethernet access has password protection
- Push Buttons Mount on pole without opening them
- Easy access to all terminals without un-Mounting PBS's
- All Updates via Built-in Secure USB Port
- Single field replaceable internal module on Push Button Station
- Wide Operating Temperature Range of -34C to 74C
- Wide Storage Temperature Range of -45C to +85C
- Full NEMA TS 2 Compliant
- Full NEMA TS 4 Reliability
- Independent Hardware Push Button Pedestrian Conflict Monitoring with PSM2