IAQ ENFORCER™ SYSTEM *EB-Bus Ethernet* SMART DISPLAY PANEL (SDP) FOR COMPATIBLE EBTRON, GREENTROL, AND APPROVED THIRD-PARTY DEVICES

Device Config | **Device Summary** | ***EB-Link* Reader** | **Live Display**

Application graphics subject to change with application enhancements and updates.

< APPS **DEVICES >**

STANDARD APPLICATIONS PROVIDED

- Device Configuration App
- Device Summary App
- EB-Link Reader App
- Live Display App

ADDITIONAL APPLICATIONS

- Visit EBTRON.com/SDPAppStore or scan the “APPS” QR Code for an up-to-date list of applications and updates

PRODUCT HIGHLIGHTS

- Manage up to sixteen measurement devices from a single location
- Tablet/phone style interface with factory installed applications that can be updated and/or added over time
- 7-inch diagonal capacitive touch full color display (800x480 resolution) with a 900MHz microcomputer, 512 MB of RAM, and 8 GB of flash memory
- Compatible with EBTRON, GreenTrol, and other third-party approved *EB-Bus Ethernet* devices (visit EBTRON.com/SDPDevices or scan the “DEVICES” QR code for up-to-date devices supported)
- Dedicated Ethernet network does not interfere with BAS communications (BAS connections are made to separate analog or network outputs of each individual measuring device)
- View, configure, and diagnose multiple devices
- Bidirectional capability allows transmitters to be installed closer to the sensor probes, thus eliminating the need for extended cable lengths
- Low-cost CAT5e or higher wiring allows transmitters to be located 328 ft. [100 m] from display or Ethernet switch
- Updates and new applications can easily be added over time using a USB Type A memory device
- Three-year warranty
- Toll-free customer support for the lifetime of the product

THE IAQ ENFORCER™ SYSTEM

The IAQ Enforcer™ System was introduced by EBTRON in the mid-1990’s as a method to provide centralized access to multiple measuring devices installed in an air handler, mechanical room, or other location to facilitate use, configuration, and troubleshooting.

Today’s IAQ Enforcer™ System is built on multiple levels of hardware, software, and cloud based technologies. One level of technology is the Smart Display Panel Series that takes advantage of advancements in network communications, microprocessor power, and display technology to create a state-of-the-art, single point of access device to view, configure, and diagnose multiple measurement devices. In addition to the standard applications provided, new and exciting applications and tools are continuously being developed to expand the functionality of the device. Applications, tools and updates are available free of charge for download at EBTRON.com.

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SDX-1000 SMART DISPLAY PANEL

The SDX-1000 is the Ethernet version of the IAQ Enforcer™ Smart Display Panel Series. The display is designed to operate on a stand-alone Ethernet network between the display and up to sixteen compatible devices[1,2]. Connected devices with a single Ethernet port require an Ethernet switch.

The stand-alone network design allows for auto discovery and setup of all approved connected devices at powerup and requires no networking experience by the installer or user. The device supports password protected administrative and user privileges for the SDX-1000 and individual applications for advanced security and peace-of-mind.

The SDX-1000 is provided with factory installed applications (partial list below). Updates and additional applications to increase functionality are continuously being developed and added to the device[3].

1 Devices with multiple sensor measurements are considered one "device".
2 Visit EBTRON.com/SDPDevices or scan the "DEVICES" QR Code on the previous page for an up-to-date list of compatible devices.
3 Visit EBTRON.com/SDPAppStore or scan the "APPS" QR Code on the previous page for an up-to-date list of applications and updates.

Factory Installed Applications

App Name	Description
Live Display	Display the measurements of up to sixteen devices. Devices having multiple measurements (ex., airflow, temperature, humidity, enthalpy, and dewpoint) are considered one device and are displayed on a single screen. Device hold, continuous advance, or fast forward display through multiple devices are easily selected from the touchscreen. A simple dropdown allows immediate display with hold of any connected device.
Device Config	Configure any parameter of any connected device from the SDX-1000, thus eliminating the need to configure or diagnose the transmitter at the location where it is mounted. As a result, transmitters do not need to be located at eye level or next to the BAS panel. In many cases, this will decrease sensor cable length requirements and save on first costs.
Device Summary	Allows for a quick tabular view of the output of all connected devices on a single, scrollable screen. The app also displays the system status of each connected device.
***EB-Link* Reader**	This is essentially the same as the popular Bluetooth® Low Energy *EB-Link* Reader phone/tablet app for Android® or iOS® systems. View individual sensor data and complete diagnostics of each device connected to the display panel. Save diagnostic data to a USB memory device to export data for records or email data to EBTRON customer service. Ideal for installations that do not permit radio transmission from devices.

SDX-1000 SMART DISPLAY PANEL TECHNICAL SPECIFICATIONS[4]

Display
7" diagonal, full color, capacitive touch display (800x480 resolution)

Operating System, Microcomputer, and Internal Memory
Linux-based 900MHz microcomputer with 512 MB of RAM and 8 GB of flash memory

External Memory (by others)
FAT32 formatted, USB Type A memory device (thumb drive) for upload operating system and installed application updates, new applications, or download of data from specific applications

Environmental Limits
Temperature:
-4 to 120 ^{o}F [-20 to 48.89 ^{o}C]
Humidity: (non-condensing)
5 to 90%

Connections to Individual Measurement Devices
Protocol: *EB-Bus* Ethernet (dedicated network)
Wiring and Connections: CAT5e or higher cable with standard RJ-45 connectors using theT-568A or T-568B Ethernet wiring convention. Multiple measuring devices shall be connected through a standard Ethernet switch[5]
Max Distance between Devices and/or Switches: 328 ft. [100 m]
Maximum Devices Supported: 16

Communications to B.A.S.
None. Connections are made to separate analog or network outputs of each individual measuring device (refer to the individual measuring device data sheet for BAS connectivity options)

Power Requirement
Barrel Jack, 12VDC (18W Max), 110 VAC adapter power supply provided.

Enclosure
Material: ABS, UL-94 HB
Dimensions: 6.4H x 10.5W x 1.6D in. [162.6H x 266.7W x 0.6D mm]

Listings & Compliance
FCC: This device complies with Part 15 of the FCC rules
RoHS: This device is RoHS2 compliant

4 Technical specifications subject to change based on component availability.
5 Select an Ethernet switch designed for the temperature range it will be exposed to. Commercial and industrial temperature range Ethernet switches are also available from EBTRON or your local EBTRON representative.