**SECTION 27 41 16**

**INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT**

**GUIDE SPECIFICATION**

*Specifier: The Specifier/Design Professional is responsible for the accuracy of all project specifications, including system application and coordination with related sections. This guide specification is provided as a convenience and requires editing to match actual project requirements. CRESTRON ELECTRONICS, INC. SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS. For Crestron design assistance and design review please contact Sales Support Services Department at 800.237.2041 or techsales@crestron.com.*

*Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.*

**Table of Contents**

**1 GENERAL 3**

**2 PRODUCTS 3**

2.1 AV Control Processor Type 1 3

2.1.1 Basis of Design Control Processor 3

2.1.2 Control Processor 3

**3 EXECUTION 4**

**4 APPENDICES 5**

4.1 SPECIFIED PRODUCTS 5

4.1.1 Crestron PRO4 5

4.1.2 Crestron AV4 5

# **GENERAL**

*NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.*

# **PRODUCTS**

## **AV Control Processor Type 1**

### Basis of Design Control Processor

#### Crestron PRO4

*Specifier Note:*

*The flagship 4-Series™ rack-mountable control system with a powerful 4-Series control engine, expanded memory, a color LCD front panel, numerous integrated control ports and optional control card expansion slots. Features an isolated control subnet that provides a Gigabit Ethernet LAN dedicated to Crestron® devices.*

*The PRO4 includes:*

*Front Panel LCD Display and Control Card Expansion Slots*

*https://www.crestron.com/Products/Control-Hardware-Software/Hardware/Control-Systems/PRO4*

#### Crestron AV4

*Specifier Note:*

*A rack-mountable control system with a powerful 4-Series™ control engine, expanded memory, numerous integrated control ports and optional control card expansion slots. Features an isolated control subnet that provides a Gigabit Ethernet LAN dedicated to Crestron® devices.*

*The AV4 supports an optional control card expansion slot card cage.*

*https://www.crestron.com/Products/Control-Hardware-Software/Hardware/Control-Systems/AV4*

### Control Processor

*Unit shall include a built-in control processor with onboard control ports for control of external devices.*

#### External Control Ports

##### Eight IR ports

##### Six RS-232 COM ports

##### Eight Relay ports

##### Eight Digital Input Output ports

#### Native BACnet/IP

*Specifier: A free license for 50 BACnet objects is available for the CP4(N). The CP4(N) processor may be upgraded to support a maximum of 2000 BACnet IP objects.*

##### Number of BACnet objects supported: 2000

*Specifier Note: A BACnet and IP license is required. A free license is available to support up to 50 BACnet objects on a single 4-Series control system. Enabling support for more than 50 BACnet objects requires the purchase of one SW-3SERIES-BACNET-50+ license. The CP4N supports a maximum of 2000 BACnet objects when dedicated for BACnet use only.*

#### The built-in control processor shall support customizable control of integrated AV devices, room lighting hardware, window shades, and projection screens.

#### Controller shall include the following onboard network ports:

##### Ethernet

##### Four PoE+ Control Subnet Ports

##### RS-422 type network control bus

#### The controller shall support a network management system by the same manufacturer, supporting overall remote system controlling, monitoring, and managing through network computers and mobile devices.

#### The controller shall support touch screens, keypads, and wireless remotes and mobile device Apps from the same manufacturer.

# **EXECUTION**

*NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.*

# **APPENDICES**

## **SPECIFIED PRODUCTS**

*Specifier Note: This Article includes Crestron products specified in this Guide Specification document. This Article is for reference only and should not be required in actual project manual unless included in an overall system equipment list.*

### Crestron PRO4

### Crestron AV4