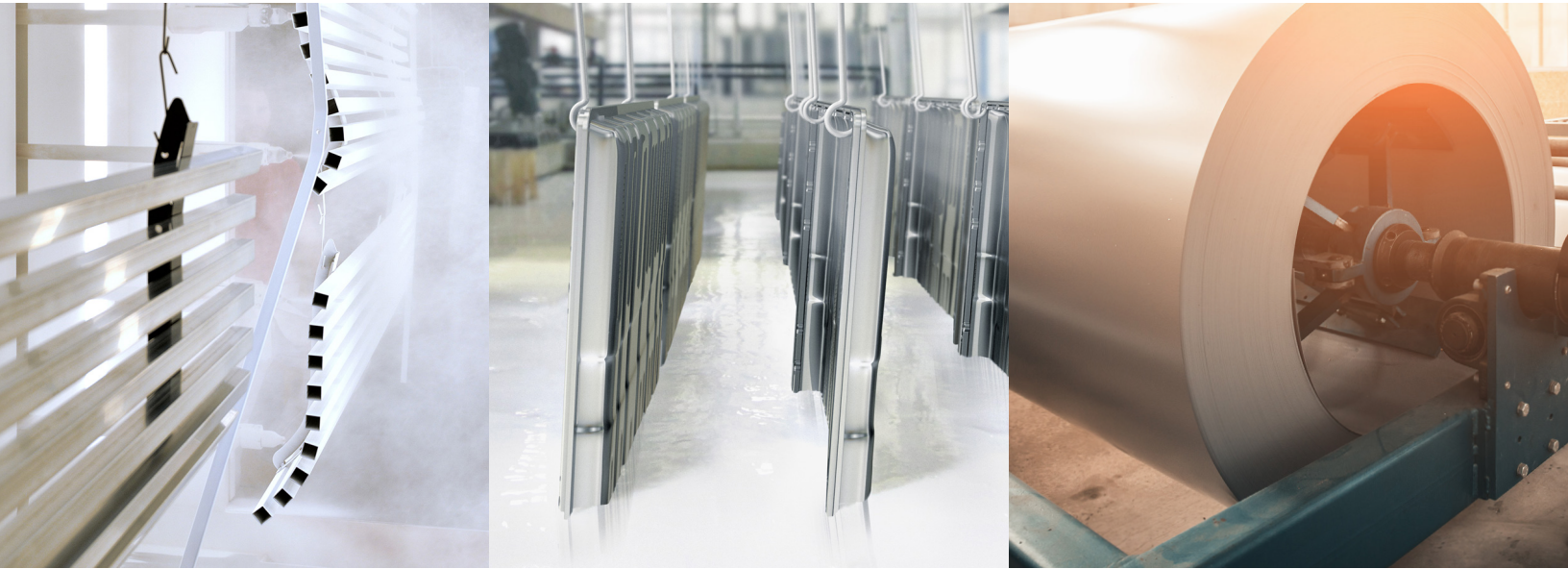




## BONDERITE® E-CO GUARD+

The **BONDERITE® E-CO GUARD+** is a multi-channel process control unit and is the primary module of Henkel's North American control system. Designed for the control of cleaners, rinses and treatments, it has eight individual sensing and control loops that may be configured for electrodeless conductivity, contact conductivity, ORP, pH, temperature control and more. This unit provides the highest quality, cost-effective, concentration control available to the finishing industry. The chemical resistant, polycarbonate enclosure meets Nema 4X requirements. Installation is easy and maintenance requirements are minimal.

The E-CO GUARD+ process set-points and alarm limits are easily adjusted via the internal control panel and monitored on the LCD display.



### Features

- › Datalogging
- › Full color touchscreen
- › On screen graphing of readout values
- › Multiple language support
- › Wall mount enclosure for easy installation
- › Ethernet connectivity
- › Modbus TCP for connection to existing PLC or SCADA systems
- › USB port for data / configuration export



[Contact us to learn more](#)

## Product Specifications

| Product                         | BONDERITE® E-CO GUARD+                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enclosure                       | Nema 4X                                                                                                                                                                                                                                                                                                                                                        |
| Operating Temperature Range     | -4° to 122°F (-20-50°C)                                                                                                                                                                                                                                                                                                                                        |
| Dimensions                      | 13.13" x 14.43" x 6.7" (W x H x D)                                                                                                                                                                                                                                                                                                                             |
| Humidity Range                  | 10-90% non-condensing                                                                                                                                                                                                                                                                                                                                          |
| Power Requirements              | 100-240 VAC 50/60 Hz.                                                                                                                                                                                                                                                                                                                                          |
| Sensor Configurations Available | Any combination of Conductivity, pH, ORP, Temperature, and 4-20mA inputs*, up to a total of eight control channels                                                                                                                                                                                                                                             |
| Sensor Cable Length             | 15 ft. (Extension kits available for all sensors)                                                                                                                                                                                                                                                                                                              |
| Sensing Options                 | <ul style="list-style-type: none"> <li>› pH, 0-14pH</li> <li>› Electrodeless Conductivity (mS/cm)</li> <li>› Contact Conductivity (uS/cm)</li> <li>› ORP (±2000mV)</li> <li>› Any other sensor outputting a 4-20mA input signal (i.e. temperature, level, RI, etc.)</li> <li>› Any isolated dry contact (i.e. relay, reed switch, flow meter, etc.)</li> </ul> |
| Electrical Certification        | <ul style="list-style-type: none"> <li>› UL 61010-1:2012 3rd Ed + Rev:2019</li> <li>› CSA C22.2 No. 61010-1:2012 3rd Ed. + U1; U2</li> <li>› IEC 61010-1:2010 3rd Ed. + A1:2016</li> <li>› EN 61010-1:2010 3rd Ed. + A1:2019</li> <li>› BS EN 61010-1:2010 + A1:2019</li> </ul>                                                                                |

| Input / Output      | Available module slots                                                                                                                                                                                                                         |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs              | <ul style="list-style-type: none"> <li>› 4 input module slots</li> <li>› 12 discreet (digital) inputs</li> </ul>                                                                                                                               |
| Outputs             | <ul style="list-style-type: none"> <li>› 3 output module slots</li> </ul>                                                                                                                                                                      |
| <b>Module Types</b> |                                                                                                                                                                                                                                                |
| Input               | <ul style="list-style-type: none"> <li>› Dual Sensor Input Module (2, sensors)</li> <li>› Hexa Analog Input Module (6- 4-20mA Inputs)</li> <li>› Dual Analog Input, Quad Analog Output Module (2- 4-20mA inputs, 4- 4-20mA outputs)</li> </ul> |
| Output              | <ul style="list-style-type: none"> <li>› Quad Dry Relay Output Board (default)</li> <li>› Quad 120v Powered Relay Output Board w/ USA Pigtails (available separately)</li> </ul>                                                               |

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