

<b>GENERAL SPECIFICATIONS (<u>S52c CONTROLLER INSTRUMENT</u>)</b>	
<b>APPLICATION</b>	Controller, Weighbelt Feeders, LIW Feeders and LIW Batch Controller
<b>FUNCTION</b>	Rate Measurement, Rate or Proportional Control and Totalization.
<b>ENCLOSURE</b>	Standard, Panel Mount, Type 1, 8 H x 6 W x 5 D (in), Cutout 7.5 H x 5.5 W (in) Optional Enclosure, Type 4/IP 66, 300 H x 250 W x 150 D (mm), Painted Steel Optional Enclosures, Type 4X/IP 66, 300 H x 250 W x 150 D (mm), 304 or 316 Stainless Steel
<b>CONNECTIVITY</b>	Optional, Serial Communications, Allen Bradley DF1 or Modbus RTU (RS-232, RS-422 or RS-485) Optional, Fieldbus Communications, Ethernet/IP-Modbus/TCP, Profibus DP or Native DeviceNet
<b>APPROVALS</b>	Underwriters Laboratories, CUL Listed, UL File Number E208487
<b>CABLE LENGTH</b>	Maximum cabling length of 1000 wire feet between instrument and weighing equipment
<b>INPUT POWER</b>	120 – 240 VAC, 1 Phase, 50 – 60 Hertz (Fused Universal Power Supply), ≤ 43 Watts
<b>ENVIRONMENTAL CONDITIONS</b>	
<b>TEMPERATURE</b>	14 to 149° F / -10 to 65° C (Operating), -4 to 185° F / -20 to 85° C (Storage)
<b>HUMIDITY</b>	10 to 90% Noncondensing (Operating), 5 to 95% Noncondensing (Storage)
<b>ALTITUDE</b>	Up to 2000 Meters (Operating), Up to 3000 Meters (Storage)
<b>COOLING</b>	Method Natural Convection <b>POLLUTION</b> Degree of Pollution 2
<b>CLASSIFICATION</b>	Area Location, Nonhazardous
<b>PROCESSOR SPECIFICATIONS</b>	
<b>PROCESSOR</b>	Embedded PC with Flash Card
<b>DISPLAY</b>	4 Line x 20 Character Vacuum Fluorescent Dot Matrix (Full Messaging)
<b>KEYBOARD</b>	23 Graphic Keyboard Controls with Tactile/Audio Feedback
<b>LOAD RESOLVER</b>	24 Bit A/D Converter, Resolution 0 - 1,048,575 for -15 to 125% Full Scale Output
<b>SPEED RESOLVER</b>	Digital, Resolution 0.33 to 7,500 Hertz for 0 to 100% Belt Speed
<b>SUPPORTED SENSORS</b>	
<b>WEIGHT/LOAD</b>	Linear Variable Differential Transformer (LVDT) or Strain Gauge
<b>SPEED/VELOCITY</b>	Single/Dual Channel Line Drive Encoders, Proximity Switches (Open Collector) and Accelerometers
<b>TEMPERATURE</b>	Analog or Digital
<b>SENSOR SUPPLY SPECIFICATIONS</b>	
<b>WEIGHT/LOAD</b>	Excitation, 5 Volt Sine Wave @ 1030 Hertz, 62.5 mA, 85 – 1.2 K Ohms
<b>SPEED/VELOCITY</b>	+12 VDC Supply Voltage, 250 mA Maximum Current Draw
<b>TEMPERATURE</b>	+5 VDC Supply Voltage, 1.5 mA Maximum Current Draw
<b>INPUT / OUTPUT SPECIFICATION</b>	
<b>ANALOG INPUT (QTY 1)</b>	Isolated 4–20 mA, 2 wire loop powered, 169 Ohm Input Impedance, 22 Bit Resolution <b>AI-1</b> , Field Selectable (See manual for complete list of assignments)
<b>ANALOG OUTPUT (QTY 1)</b>	Isolated 4–20 mA into 750 Ohm Load, Isolated, +24 VDC Source , 16 Bit Resolution <b>AO-1</b> , Field Selectable (See manual for complete list of assignments)
<b>DIGITAL INPUTS (QTY 4)</b>	Require Dry Contact Closures, Sourcing +12 VDC with 10 mA Minimum Sink Current <b>DI-DS</b> , Factory Set for Drive Status <b>DI-1, DI-2 and DI-3</b> , Field Selectable (See manual for complete list of assignments)
<b>DIGITAL OUTPUTS (QTY 2)</b>	Isolated Relays, Form A Contacts, 140 VAC / 200 VDC, 50 mA Maximum <b>DO-1 and DO-2</b> , Field Selectable (See manual for complete list of assignments)
<b>DIGITAL OUTPUTS (QTY 2)</b>	Solid State Relays, Form A Contacts, 240 VAC / VDC, 100 mA Maximum <b>DO-3</b> , Field Selectable (See manual for complete list of assignments) <b>DO-4</b> , Factory Set for Remote Totals (Totalizer)