

# 5606

## SCADAPack™ analog/digital I/O module

- I/O expansion module for SCADAPack 32, 300 and 300E
- 32 Dis, 16 Relay DOs, 8 configurable AIs, 2 optional AOs
- Up to 8 modules supported
- Conformally coated
- 3 year warranty on parts and labor



# Product Data Sheet 5606

## Specifications

### > Digital and Analog Inputs/Outputs

#### I/O

Analog Inputs	<ul style="list-style-type: none"> <li>8, software configurable to 0...20, 4...20mA , 0...5 or 0...10V</li> <li>Resolution: 15-bit ADC (15-bit over the measurement range in 10V, 14-bit in 20mA)</li> <li>Accuracy: <math>\pm 0.1\%</math> of full scale at 25°C (77°F), <math>\pm 0.2\%</math> over temperature range</li> <li>Transient protection: 2.5kV surge withstand capability as per ANSI/IEEE C37.90.1-1989</li> <li>Input Resistance: 253 <math>\Omega</math> or 800 k<math>\Omega</math> in 20mA or 10V configurations</li> <li>Isolation: 500 Vac from logic and chassis</li> <li>Normal rejection mode: 27 dB at 60 Hz</li> </ul>
Analog Outputs	<ul style="list-style-type: none"> <li>2 (optional), 0...20 mA, 4...20 mA, voltage output may be accomplished with external precision resistor</li> <li>Resolution: 12-bit over 0...20 mA range</li> <li>Accuracy: <math>\pm 0.15\%</math> at 25°C (77°F), <math>\pm 0.35\%</math> of full scale over temperature range</li> <li>Response Time: less than 10 <math>\mu</math>s for 10% to 90% signal change</li> <li>Power Supply: 12...30 Vdc, external</li> <li>Power (Current) Requirements: 10 mA plus up to 20 mA per output</li> <li>Isolation: isolated from RTU logic and chassis</li> <li>Load Range: 12 Vdc: 0...375<math>\Omega</math>, 24 Vdc: 0...925<math>\Omega</math>,</li> <li>Logic End-Of- Scan to Signal Update Latency: typically 18... 27ms</li> </ul>
Digital Inputs	<ul style="list-style-type: none"> <li>32, 12...24 Vdc</li> <li>Turn on voltage: 9 Vdc (minimum), Turn off voltage: 4 Vdc (maximum)</li> <li>Over-voltage tolerance: 150% sustained over-voltage without foreseeable damage</li> <li>DC input current: 0.67 mA at 24 Vdc</li> <li>Isolation : in group of 8, 1500 Vac from logic supply and chassis</li> </ul>
Digital Outputs	<ul style="list-style-type: none"> <li>16, relays (Form A)</li> <li>4 contacts share one common</li> <li>Isolation : isolated in groups of 4. Isolated from RTU logic, RTU chassis and other groups to 1500 Vac</li> <li>Maximum Switching Voltage: 30 Vdc or 250 Vac (resistive)</li> <li>Maximum Switching Load: 150 W or 1250 VA (5 A)</li> </ul>

#### General

Power supply	<ul style="list-style-type: none"> <li>Analog Inputs &amp; Outputs: 12mA at 12...30 Vdc, plus analog output requirements</li> <li>Digital Inputs &amp; Outputs: 650mA at 5V, fully loaded</li> </ul>
I/O terminations	5, 7, 9, 11-pole connectors, 0.0810...3.31mm <sup>2</sup> (28...12 AWG), solid or stranded
Dimensions	211.8mm (8.34") wide, 181.0mm (7.13") high, 46.5mm (1.83") deep
Enclosure	Corrosion resistant zinc-plated steel with black enamel paint
Environment	<ul style="list-style-type: none"> <li>Conformally coated</li> <li>-40°C (-40°F) to 70°C (158°F) operating, -40°C (-40°F) to 85°C (185°F) storage</li> <li>5% RH to 95% RH, non-condensing</li> </ul>
Warranty	3 year on parts and labor

#### Certifications (three options available: S for standard, X for ATEX/IECEX and U for Class I Div 2)

S version	EMC and radio frequency	FCC 47 CFR Part 15, Subpart B ICES-003 Issue 5 August 2012 CE and RCM markings
	General Safety	UL 508
X version	Adds: IECEX/ATEX Class I, Zone 2	
U version	Adds: cCSAus Non incendive Electrical Equipment for use in Class I, Division 2, Groups A, B, C and D	

#### Part numbers

In S version	TBUX297328S (no AO), TBUX297334S (with 2AO)
In X version	TBUX297328X (no AO), TBUX297334X (with 2AO)
In U version	TBUX297328U (no AO), TBUX297334U (with 2AO)

5606 module is not supported by the Non-Programmable Controller Modules (Model 5201 & 5202)

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