## TC-HAO081, TK-HAO081

Table 6-30 HART- Analog Output, 8-Point, Current/Voltage Module

Parameter	Specification		
Number of Points/Channels	8 output channels		
Available output ranges for channels configured for non-HART. Voltage and Current Ranges:	Actual Range: ±10.4 volts 0 to 10.25 volts 0 to 21 mA	Configuration Selection: ±10 volts 0-10 volts 4-20 mA	Resolution: 16 bits (323 μV/bit) 15 bits (323 μV/bit) 15 bits (656 ηΑ/bit)
Available output ranges for channels configured for HART. Output is automatically set to Current Range only.	Actual Range: 0 to 21 mA	Configuration Selection: 4-20 mA	Resolution: 15 bits (656 ηA/bit)
HART Protocol Revision	Module is compliant with the specification for HART protocol Revision 5.7		
Module scan time (for the analog 0-100% output value)	10 ms for all (8) channels		
Over voltage Protection	24 VAC/VDC continuous at room temperature		
Short Circuit Protection Current Voltage	Electronically current limited to 21 mA or less. Electronically current limited to 35 mA or less.		
Drive Capability	>2000 (Voltage) 50-750 (Current) With short circuit protection for all (8) channels.		
Calibrated Accuracy @ 25°C	Better than 0.1% of range (Voltage) Better than 0.15% of range (Current)		
Calibration interval –	12 months typical		
RFI Immunity	Error of less than 2.0% of range at 10 V/m, 27 to 1000 MHz		
Output Settling Time Current Output, No HART Current Output, with HART Voltage Output	<23 ms to 95% of final value with resistive loads <35 ms to 95% of final value with resistive loads <8.5 ms to 95% of final value with resistive loads		
Offset Drift with Temperature	50 μV/°C (voltage) typical. 200 nA/°C (current) typical.		
Gain Drift with Temperature	20 ppm/°C (Voltage) maximum. 30 ppm/°C (Current) maximum.		
Module Error Over Full Temp. Range	0.3% of range (Voltage) 0.3% of range (Current)		
Isolation Voltage; User to system	100% tested at 2550VDC for 1second		
Module Power Dissipation	6.3 W max		
Backplane Current	See Module Power Consumption Data, page 46.		
Open loop current detection  Typical OC Detection Time	Current outputs only. For proper detection, the channel output value must be greater than 0.1 mA.  Less than 5 seconds		
Connection Terminal Blocks	TC-TBNH, 20-position terminal block		
HART wiring mode supported	Point-to-Point only. Multi-drop is not supported.		
17 TET WITING THOUS Supported	Tome to Form only. Manifarop is not supported.		