## **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	Actual	Configuration	
configured for non-HART.	Range:	Selection:	Resolution:
Voltage and Current Ranges:	±10.4 volts	±10 volts	16 bits (323 µV/bit)
	0 to 10.25 volts	0-10 volts	15 bits (323 µV/bit)
	0 to 21 mA	4-20 mA	15 bits (656 ŋA/bit)
Available output ranges for channels	Actual	Configuration	Decelution
Output is automatically set to Current Range	Range:	<u>Selection:</u>	<u>Resolution:</u> 15 bits (656 pA/bit)
only.	01021111	4-20 MA	(זומאקן טכט) צוומ ניי
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)		
Calibration interval –	Better than 0.15% of range (Current)		
	Error of loss than $2.0\%$ of range at $10.1\%$ . $27$ to $1000$ MHz		
RFI Immunity			
	< 23 ms to 95% of final value with resistive loads		
Current Output, with HART	<35 ms to 95% of final value with resistive loads		
Voltage Output	<8.5 ms to 95% of final value with resistive loads		
Offset Drift with Temperature	50 μV/°C (voltage) typical.		
·	200 nA/°C (current	t) 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 (Cu	rrent)	
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	Current outputs only. For proper detection, the channel output value must be greater than 0.1 mA.		
Typical OC Detection Time	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.		