

7866 Digital Gas Analyzer Triple Range, Thermal Conductivity for Hydrogen Cooled Generator Applications

Model Selection Guide

- Factory configured for triple range applications
- Monitors CO₂ in purge cycle and H₂ in fill and operating cycle
- Utilizes thermal conductivity technology
- Optional remote range indicator
- Optional sample panel, see 7872 MSG 51-52-16-36 / GA-3
- See Product Spec 70-82-03-46 for further details
- FM, CSA and ATEX Explosion Proof (Note 1)



Control Unit



Sensor

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection each from Table I using the column below the proper arrow.
- A dot (•) denotes unrestricted availability.
- Analyzer includes sensor, control unit and power supply

Key Number I II III IV V VI VII

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KEY NUMBER

KEY NUMBER	Selection	Availability			
7866 Digital Thermal Conductivity Analyzer for Hydrogen Cooled Generator Applications consisting of: a) 07866DHS2 Sensor Assembly (includes housing) b) 07866DHC2 Digital Control Unit	07866DHH2	↓			
7866 Replacement Digital Control Unit Only (for Hydrogen Cooled Generator Applications)	07866DHC2		↓		
7866 Digital Remote Range Indicator	07866DRRI			↓	
7866 Replacement Sensor Assembly (electronics only)	07866HHSS				↓

TABLE I - SENSOR POWER SUPPLY & LINE VOLTAGE

None	0		•	•	•
Input Voltage 105 -125VAC, 50-400 Hz	2	•	•		
Input Voltage 210 -250VAC, 47-520 Hz	4	•	•		

TABLE II - OUTPUT (PV RANGE)

None	0			•	•
0-20 mA	1	•	•		
4-20 mA	2	•	•		

TABLE III - COMMUNICATIONS	Selection	Availability			
		DHH2	DHC2	DRRI	HHSS
None	000	•	•	•	•
MODBUS RS485	101	•	•	•	
10 Base-T Ethernet (Modbus RTU)	102	•	•	•	

TABLE IV - FACTORY USE ONLY

None	0	•	•	•	•
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TABLE V - FACTORY USE ONLY

Reserved for Use by Fort Washington	000	•	•	•	•
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TABLE VI - TAGGING

None	000	•	•	•	•
Linen Tags: 15 characters max. On each of three lines: Specify legend. One mounted on Control Unit; one on Sensing Unit.	206	•	•	•	•
Stainless Steel Tags: 15 characters max. On each of three lines: Specify legend. One mounted on Control Unit; one on Sensing Unit.	208	•	•	•	•

TABLE VII - INSTRUCTION MANUAL

CD Only (English)	0	•	•	•	•
Paper Copy: English	E	•	•	•	•

ACCESSORY PARTS

Description	Part Number
Instruction Manual (Paper)	70-82-25-110
Instruction Manual (CD)	50021805-501
Replacement Power Supply - Input Voltage 105-125VAC, 50-400 Hz	51450915-501
Replacement Power Supply - Input Voltage 210 -250VAC, 47-520 Hz	51450915-502
DIN Adaptor Plate	30755223-002

Note 1: Warning - When measuring a gas mixture that contains oxygen, the maximum oxygen concentration must not exceed 21%.