



# MODEL 380WP

## PORTABLE TRI GAS ANALYZER FOR HYDROGEN PURGING

### APPLICATIONS

*For checking purity of hydrogen in H<sub>2</sub> cooled generators and synchronous converters. The model 380WP will also monitor the safe purging of H<sub>2</sub> during shutdown.*



### FEATURES

- Monitors 0-100% H<sub>2</sub> in air  
0-100% H<sub>2</sub> in CO<sub>2</sub>  
0-100% air in CO<sub>2</sub>
- Rugged, long life thermal-conductivity detector cell
- Lightweight and portable
- Digital readout
- Rechargeable 'gel cell' battery
- Built in flowmeter, flow control valve and pump
- Easy to calibrate
- Easy to use
- Rugged dust-tight and water resistant case

### OPTIONS

- Recorder output (4-20 ma)
- Rugged carrying case

# DESCRIPTION

The Nova Model 380WP Tri-Gas Analyzer is designed for monitoring hydrogen purity in the hydrogen feed to a power generator and to monitor the purging procedure during a generator shut down or start up.

The Model 380WP can measure the following gases by switch selection:

- Range 1: 0-100% hydrogen in air
- Range 2: 0-100% hydrogen in CO<sub>2</sub>
- Range 3: 0-100% air in CO<sub>2</sub>

The analyzer contains a temperature compensated thermal conductivity (TC) cell, amplifier board, digital readout, range switch, gas flow regulating valve, pump and flow indicator.

A recorder output is optional.

The TC cell does not burn the sample nor is it consumed in any way, so it has a life expectancy of over 10 years. Measurement results are fast and accurate.

A rechargeable 'gel cell' battery provides enough power for about 8 hours of continuous operation and the analyzer can be used while it is being recharged.

# SPECIFICATIONS

DESCRIPTION	
<b>Method of Detection:</b>	Temperature compensated thermal conductivity (TC) cell. This cell cannot be burned out due to loss of flow or changing gases.
<b>Analyzer Configuration:</b>	Rugged polycarbonate case 13" L x 8" W x 7-1/2" H (32 x 20 x 19 cm)
<b>Weight:</b>	8 lbs. (3.6 kg)
<b>Readout:</b>	LCD digital meter
<b>Readout Resolution:</b>	0.1% of gas measured
<b>Range Selection:</b>	By selector switch
<b>Accuracy and Repeatability:</b>	± 1% of F.S.
<b>Linearity:</b>	± 0.4% of F.S. for each range
<b>Operating Temperature Range:</b>	15° to 35°C
<b>Drift:</b>	H <sub>2</sub> in CO <sub>2</sub> or air in CO <sub>2</sub> - 1% F.S. per week max. Maximum drift of 0-100% in H <sub>2</sub> in air range is ± .2% per week
<b>Speed of Response:</b>	10-15 seconds to 90% step change not including sample transport time
<b>Warm Up:</b>	10 seconds
<b>Sample Pressure Ranges:</b>	.5 to 125 PSI
<b>Power:</b>	115VAC 50/60Hz. for recharging. (Other voltages available.)

*Nova reserves the right to specification changes which may occur with advances in design without prior notice.*

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