

- General Specification -

Fuel Cell Test Station (FCTS) - PEMFC



| SF[Range] - PE | | 100 | 300 | 600 | 1K | 2K | 3K | 5K | 7K |
|-------------------------|--------------------|-------|-------|-------|------|------|------|------|------|
| Test Range | | ~100W | ~300W | ~600W | ~1kW | ~2kW | ~3kW | ~5kW | ~7kW |
| Gas Flow Control (slpm) | Anode Flow Range | 1 | 3 | 6 | 20 | 40 | 60 | 100 | 130 |
| | Cathode Flow Range | 5 | 15 | 30 | 70 | 140 | 210 | 350 | 450 |

| SF[Range] - PE | | 10K | 20K | 25K | 30K | 50K | 100K | 150K | 200K |
|-------------------------|--------------------|------|------|------|------|------|-------|-------|-------|
| Test Range | | ~10K | ~20K | ~25K | ~30K | ~50K | ~100K | ~150K | ~200K |
| Gas Flow Control (slpm) | Anode Flow Range | 200 | 400 | 500 | 600 | 1000 | 2000 | 3000 | 4000 |
| | Cathode Flow Range | 700 | 1400 | 1800 | 2100 | 3500 | 7000 | 11000 | 15000 |

| Common Specifications | | |
|-------------------------|----------------------|--|
| Gas Flow Control | N2 Purge | Auto N2 Purge (Anode, Cathode) |
| | MFC Control Range | Turndown 100:1 |
| | Additional MFC & Gas | Gas Mixing, Multi Gas, Multi Range Control Available |
| Humidification | Humidifier | Gas Temperature Control: RT~95°C, |
| | | Dewpoint Control: RT~95°C, ±1°C |
| | | Wet & Dry (Bypass) Auto Control |
| | Line Heater | Flexible line heating, Direct gas temperature control |
| Exhausted gas cooling | | Exhausted gas cooling and Trap (Condensation Water Trap & Gas Split) |
| Cell Heating & Cooling | Air Cooling | Cell Heating & Air Cooling |
| | Water Cooling | Water Circulation System (Heating & Cooling Control) |
| Back Pressure Control | | Auto Back Pressure Control, max 3.5bar, ±2kpa control stability |
| Cell Voltage Monitoring | | up to 1000channels, ±5V/Ch |
| AC-Impedance (Optional) | | Single Cell AC-Impedance or Multi Channel HFR measurement, 10mHz~10KHz |