



YHLD-100

# Hydrogen Leak Detector



## Incorporating the all new **YAMAHA** developed **MEMS**※ sensor

※ MEMS : Micro Electro Mechanical Systems

### Detects from low to high concentration of hydrogen

High resolution with range from 0.5 to 13,000 ppm

### Immediate detection alert announcement

If hydrogen concentration is over 13,000ppm (≈1.3%), the system alarms & stops

### Quick response to both increases and decreases of gas concentration

Fast system reset, so device is ready for next measurement extremely quickly

### Consecutive measurement capability

Continuous measurement will not stop as long as hydrogen is present.

Linearity will be maintained & measurement will not become saturated, even during high concentration detection

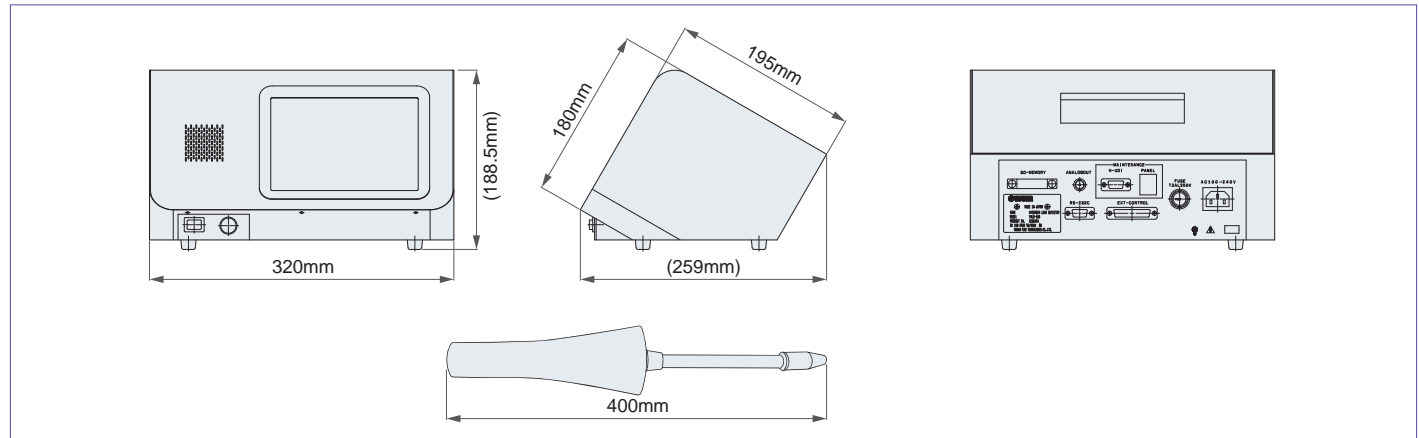
#### **Ease of use**

- Large touch panel color LCD screen
- Intuitive interactive set up and operation modes

YAMAHA FINE TECHNOLOGIES CO., LTD.



## External dimensions



## Production specification

Sensor		MEMS
Detection gas		Hydrogen (Recommended tracer gas ratio: 5%/hydrogen + 95% nitrogen)
Detective gas concentration		0.5~13,000ppm (1.3%)
Response time		Within 1 second. (10~90% at 1,000ppm)
Controller (main body)	Main panel	7.5" color LCD touch panel
	Contents of display	Measurement data (Value & bar graph)
	Measurement unit	ppm, Pa·m <sup>3</sup> /sec
	Level selection	Judgment point, set point
	Language	English or Japanese
	Detailed function	Line chart (time vs measurement value)
	Adjustment	Re-zero, "Wake-up" (means recover for sensor)
	Speaker	Buzzer for alert & measuring for value (concentration & leakage)
	SD card	Factory tuned sensor parameters are stored on the SD card
Probe	Hydrogen status display on probe	9 stage multi-colored LED status indicator on probe handle
	Contents of display	Probe measuring display & status monitor
	Adjustment	Re-Zero
Power voltage, power supply		AC100-240V, 50/60Hz, 9W
Weight		Controller (main body) /6.3kg, probe/0.3kg, Case/0.3kg
Usage environment		Temp : 5~50°C, Humidity : under 80% (Non-condensing)
Interface	Output I/O	Dsub 25pin (8/8 point, PC insulation, 12~24V)
	Measurement	BNC connector (analog output; DC1~5V)
	Output	RS232C (character, value)

Notice : The contents of this catalog are subject to change without notice.

Notice : This device is NOT classified as explosion proof. For use with under 4% hydrogen mixed air only or in accordance with applicable law.

**YAMAHA FINE TECHNOLOGIES CO., LTD.**

FA Division Sales section

283, Aoya-cho, Minami-ku, Hamamatsu, 435-8568, Japan

TEL +81-53-467-3601 FAX +81-53-467-3613

**URL : <http://www.yamahafinetech.co.jp/en/>**