



# UPC·MARATHON

A NITREX COMPANY

## H2SMART™

| SPECIFICATIONS     |                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------|
| POWER REQUIREMENTS | 2.5 Amps max. @ 24 VDC                                                                                      |
| OUTPUTS            | 2 x analog, sourcing, individually isolated,<br>4 -20 mA (R<500 Ohm)<br>4 x digital OUT, 24 VDC, 0.7 A max. |
| INPUTS             | 1 x analog, dedicated temperature<br>sensor (optional)<br>2 x digital, 24 VDC                               |
| WEIGHT             | 8.8 lb / 4 kg                                                                                               |
| DIMENSIONS         | 7.5" H x 6.7" W x 5.5" D<br>190 H mm x 170 mm W x 140 mm D                                                  |
| PERFORMANCE        |                                                                                                             |
| ACCURACY           | +/- 0.5% of reading plus +/- 0.3% of full scale                                                             |
| LINEARITY          | < 0.5% of full scale                                                                                        |
| REPEATABILITY      | < 0.5% of full scale                                                                                        |
| ZERO DRIFT         | < 0.5% of full scale per month                                                                              |
| SAMPLING FLOW      | 0.5 lpm / (1 cfh) controlled                                                                                |
| RESPONSE TIME      | 95% in 30 sec @ 0.5 lpm / (1 cfh)                                                                           |

## FACTORY CALIBRATION

H2Smart™ comes factory calibrated and is ready to use out of the box. To prolong its performance and ensure continued measurement accuracy, we recommend an annual factory calibration complete with certificate.

| FEATURES                                                            | OPTIONS |    |     |
|---------------------------------------------------------------------|---------|----|-----|
|                                                                     | Base    | LT | PRO |
| % H <sub>2</sub> MEASUREMENT                                        | ●       | ●  | ●   |
| SIMPLIFIED K <sub>N</sub> CALCULATION*                              |         | ●  | ●   |
| FULL K <sub>N</sub> , K <sub>C</sub> , K <sub>O</sub> CALCULATION** |         |    | ●   |
| MODBUS TCP/IP                                                       | ●       | ●  | ●   |
| PROFIBUS, MODBUS RTU OR CAN BUS                                     | □       | □  | □   |
| O <sub>2</sub> PROBE (FNC OPTION)                                   | □       | □  | □   |
| PLATE ASSEMBLY                                                      | □       | □  | □   |
| CHART RECORDER                                                      | □       | □  | □   |

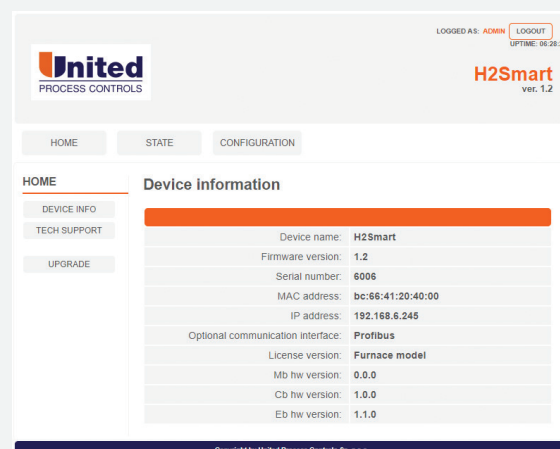
● Standard □ Optional

\* Simplified K<sub>N</sub> Calculation - for NH<sub>3</sub> and dNH<sub>3</sub> atmospheres only

\*\* Full K<sub>N</sub>, K<sub>C</sub> or K<sub>O</sub> Calculation - for NH<sub>3</sub>, dNH<sub>3</sub>, CO, CO<sub>2</sub>, N<sub>2</sub> and H<sub>2</sub>O atmospheres

## INTEGRATED WEB SERVER

H2Smart™ Integrated Web Server is an integral software component of the H2Smart™ used to connect, monitor, and modify the internal configuration of the unit including sensor values, pump flow, communication parameters, flow inputs, atmosphere flow inputs and much more.

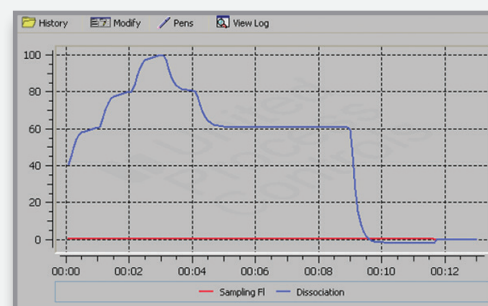


Main screen of the H2Smart™ Integrated Web Server

## OTHER OPTIONS

### Chart Recorder

The chart recorder is an easy to use program set up to the customer's application and lets the user monitor and record real-time readings of process parameters over an Ethernet network. It logs data in standard formats for use in a spreadsheet or SCADA.



### Plate Assembly

The H2Smart™, electrical junction box, and filter are provided pre-wired and pre-assembled on a high-grade steel mounting plate, ensuring fast and reliable installation to a wall or panel.



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