MICROSENS

Product Overview

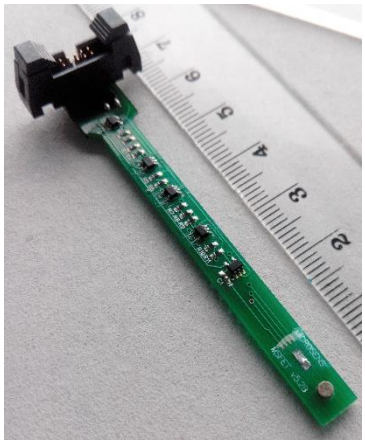
MSFET-3332

MICROSENS pH sensor module

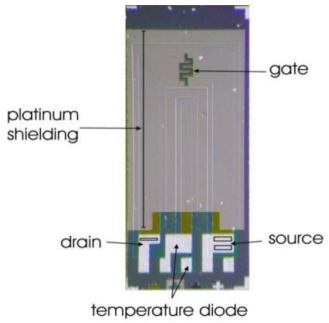
Module Description

The MSFET3332 pH sensor module comprises a pH-ISFET sensing element, an integrated miniature solid-state Ag/AgCl reference electrode and electronic circuitry. The latter drives the sensor via a fixed constant current/constant voltage setting and provides the analogue and digital (SPI) output. The output signal is proportional to the pH value of the measured liquid sample.

Module dimensions: 70 mm x 10 mm x 3 mm



pH-Sensor Description



- ISFET devices are realized with microelectronic technology compatible with CMOS processes.
- Ta_2O_5 insulating gate ISFET devices measure the pH value in a wide range from basic to acidic solutions
- The sensitive element is a Field Effect Transistor, whose metal gate is replaced by a Reference Electrode and the solution of interest.

Key Features and Applications

Applications

- Water Quality monitoring
- Environment control
- Security, industrial process control

Key Features

- MSFET 3330 sensing element
- Integrated solid-state Ag/AgCl reference electrode
- Single supply, low power, small size
- Analogue and digital (SPI) output
- Typical pH sensitivity: -55mV/pH

MICROSENS SA
Rue de la Maladière 71c, CP 645, CH-2002 Neuchâtel/Switzerland, Tel: +41-32-724 55 66
EPFL Innovation Park, Batiment D, 1015 Lausanne, Switzerland, Tel.:+41-21-353 91 35
e-mail : info@microsens.ch, www.microsens.ch