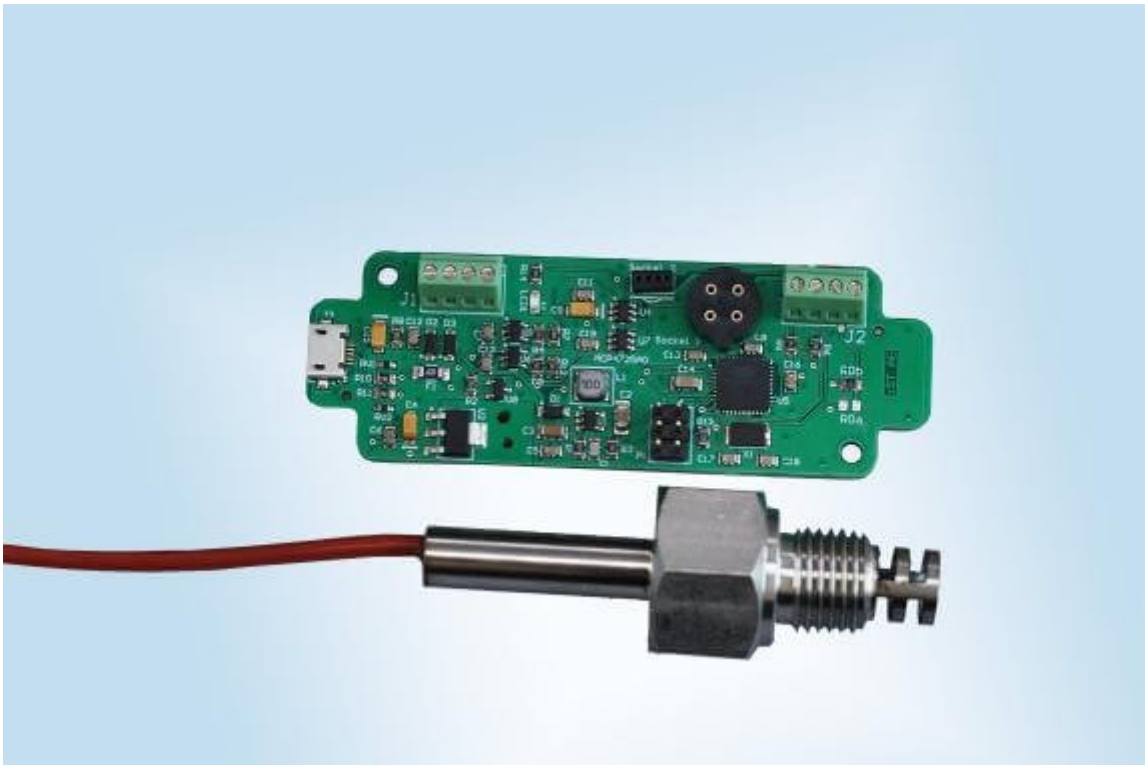
Moisture in oil Eval Kit



Eval KIT with RH/T module for Moisture in Oil + test board with digital (I2C) and analog (0..10V) outputs, with an easy- to-handle probe assembly. Board compatible with Arduino IDE environment

Evaluation Kit for application testing purposes consisting of: Assembled and factory calibrated HYT271 MK33 module for relative humidity (water activity aw) and temperature measurement. Board with analog output and digital Interface to PC over micro USB.

Product Name: Moisture in oil Eval Kit
Operating humidity range: Board: non-condensing, Probe: 0 % RH to 100 % RH
Operating temperature range: Board: -20..+50°C, Probe: -40 °C to +120 °C
Accuracy humidity: ±3 %RH
Accuracy temperature: ± 0.2 ° C
Digital interface: Board to PC: USB Board to Sensor: I²C
Operating voltage: 5V over USB (analog socket 4-15V)
Current consumption: 50 to 300 mA

Dimensions: Board 84 x 29 mm (LxW); Probe 67 mm (L) with M14x1.5 thread
Connections: Board: micro USB and analog socket; Probe: 4xAWG26 cable
Wire dimensions: 500 mm
Measured medium: Air/Oil
Product code: 157475

Product details

Quality

Consistent with the well-known, high-quality standards in Switzerland, IST AG is certified according to ISO 9001:2015 (quality) and ISO 14001:2015 (environment). Appropriate processes are part of our daily work. They are regularly audited and extended parallel to the growth of our company.

> Read more

MK33-W for oil measurement applications

The iST MK33-W capacitive RH humidity sensor has been developed especially for high-end measuring applications and extreme environments making it optimal for oil applications. The MK33 excels through its extremely high humidity and temperature working range and its outstanding chemical resistance. The humidity sensor is capable of measuring 0 % RH to 100 % RH (maximal dew point +95 °C) with a capacitance of 300 pF ±40 pF (at 30 % RH and +23 °C) and operates within a temperature range of -40 °C to +190 °C.

Benefits & Characteristics of the HYT 271

Mechanically robust and with a chemical and condensed waterproof sensing area, the digital iST HYT 271 humidity modules offer the widest application window and an optimal price-performance ratio. Precisely calibrated, the HYT 271 delivers an accuracy of ±1.8 % RH and ±0.2 °C and combines the advantages of a precise, capacitive polymer humidity sensor with the high integration density and functionality of an ASIC. The digital software integrated in the module processes the measured data and delivers the physical parameters of relative humidity and temperature over the I²C compatible interface as digital values. The HYT 271 humidity module is therefore fully

interchangeable without adjustment and both the linearity error as well as temperature drift are corrected “on-chip” through computation resulting in an outstanding accuracy over a wide range of applications.

The online shop

Quantity (pieces)	Price (per piece)
1-3	CHF 370.80

Stock: **0**