**DDTOP ULB Glass Plate Level Gauge**

**Reliable Isooctane Unit Level Measurement**

**In-Situ Display Instrument**

**RESULTS**

* Solve the problem of strong corrosiveness of isooctane unit medium with professional design；
* Better ensure that the device can operate stably.

**APPLICATION**

**Equipment**：Isooctane Unit

**Medium**：Isobutane、Butene、Sulphuric Acid

**Medium Characteristics**：Strong Corrosion

**CUSTOMER**

Shandong Huabin Chemical Technology Co., Ltd.

**CHALLENGE**

The isooctane production process uses isobutane and butene in carbon tetra(C4) separated from catalytically cracked liquid hydrocarbons by gas rectification，The process of producing the isooctane by liquid phase reaction at a low temperature with 89%-98% sulfuric acid as a catalyst. The reaction temperature is generally between 2 ~ 18 ° C, and the design reaction temperature is generally 10 ° C.

Sulfuric acid is an important process medium, sulfides such as SO2 are used as process products in the reaction, and alkali liquid is a raw material for process reaction, which is extremely corrosive to ordinary glass plates.

**SOLUTIONS**

DDTOP’s ULB glass plate level gauge can solve the corrosive problems caused by the medium to the instrument:：

* Select No. 20 alloy or Hastelloy as the wetted material according to the concentration of sulfuric acid；
* For the sulphide problem, strictly comply with the requirements of NACE MR0103 in the procurement and manufacturing process；
* Designed in accordance with the welded structure in the PED certification during the design process to ensure stable operation in dangerous conditions;
* For the glass plate level gauge for measuring alkaline medium, the latest type of alkali-resistant glass on the market can be used for safe and reliable operation for more than one year without increasing the mica protection pad.

**Dandong Top Electronics Instrument (Group) Co.,Ltd.**

**Reliable Process Instrumentation and Automation Solution Provider**

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