

ADI 2045TI Ex proof Process Analyzer



State-of-the-art protection for on-line process analysis



Play it safe with Metrohm Applikon Ex proof process analyzers!

In hazardous environments, where concentrations of flammable gases, vapors or dust occur, it is vital that instruments be safe to operate and do not initiate an explosion. For these environments Metrohm Applikon has developed the third generation of wet chemical Process Analyzers. The ADI 2045TI Ex proof fulfills EU Directives 94/9/EC (ATEX95) and is certified for Zone-1 and Zone-2 areas.

The ADI 2045TI Ex proof is based on a uniquely modular and flexible design concept to meet all hazardous protection needs. It combines a purge/pressurization system with intrinsic safety electronic devices achieving the most versatile explosion protection method yet. The air purging phase and permanent overpressure prevents any potentially explosive atmosphere in the ambient air from entering the analyzer enclosure.

The ADI 2045TI Ex proof's smart design avoids the need for purging large analyzer shelters reducing utility costs and eliminating the need for «Hot work permits» when conducting routine maintenance on the analyzer. The ATEX certified Process Analyzer can be located at the production line in any hazardous environment saving costs on expensive infrastructures.

While the ADI 2045TI Ex proof complies with EU Directives 94/9/EC (ATEX95), Metrohm Applikon upon special request will evaluate compliance to other directives to make sure the ADI 2045TI Ex proof is accepted in all markets.



Superior versatility – determine hundreds of different compounds/samples!

When it comes to versatility, the ADI 2045TI Ex proof follows in the tradition of Metrohm Applikon's proven ADI 2045TI on-line Process Analyzers. Titration, Karl Fischer titration, photometry, measurements with ion selective electrodes, and direct measurements are all possible with the ADI 2045TI Ex proof.

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Typical applications for the ADI 2045TI Ex proof are:

- Water (moisture) in: Acetic Acid, Alcohol, Glycol, HC condensate and Kerosene
- NaOH in fuel, ethylene-glycol and MPD/MTP; chemical and petrochemical
- NaCl in Crude Oil
- Chloride, iron and pH in CDU distillate steam
- Ammonia and H₂S in Sour Water Stripper
- Cyanide in waste and industrial water
- Bromide in PTA and hydrogenated C5/C8
- H₂O₂ in HPPO and dispensed/recovery liquid
- Other examples; KOH, HF, p-TBC, TAN, H₂SO₄, Mercaptanes

Features, specifications and options:

- No «Hot work permits» needed for servicing
- «Rapid Air Exchange» Purge Control Unit for 115 V & 230 V Zone 1 & 2
- Stainless Steel SS316 Housing with built in keyboard with trackball
- Pneumatic Valves for flammable sample handling
- Data communication: ModBus (TCP/IP) and Webservice (HTML) protocol through Ethernet
- Full remote access and control capabilities
- Isolator packages for all discrete Analog and Digital Inputs/Outputs
- Ex-proof sensor input isolation amplifier
- IP66/NEMA 4X Ingress Protection
- Zone-1 and Zone-2 versions according to EU Directives 94/9/EC ATEX95
- Multiple sample streams, analyses and components
- Techniques: Titration, Karl Fischer titration, Photometry, Ion Selective and Direct Measurement

Interested but not sure whether your application will work?

Send us an email and we will check our database and application laboratory.

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