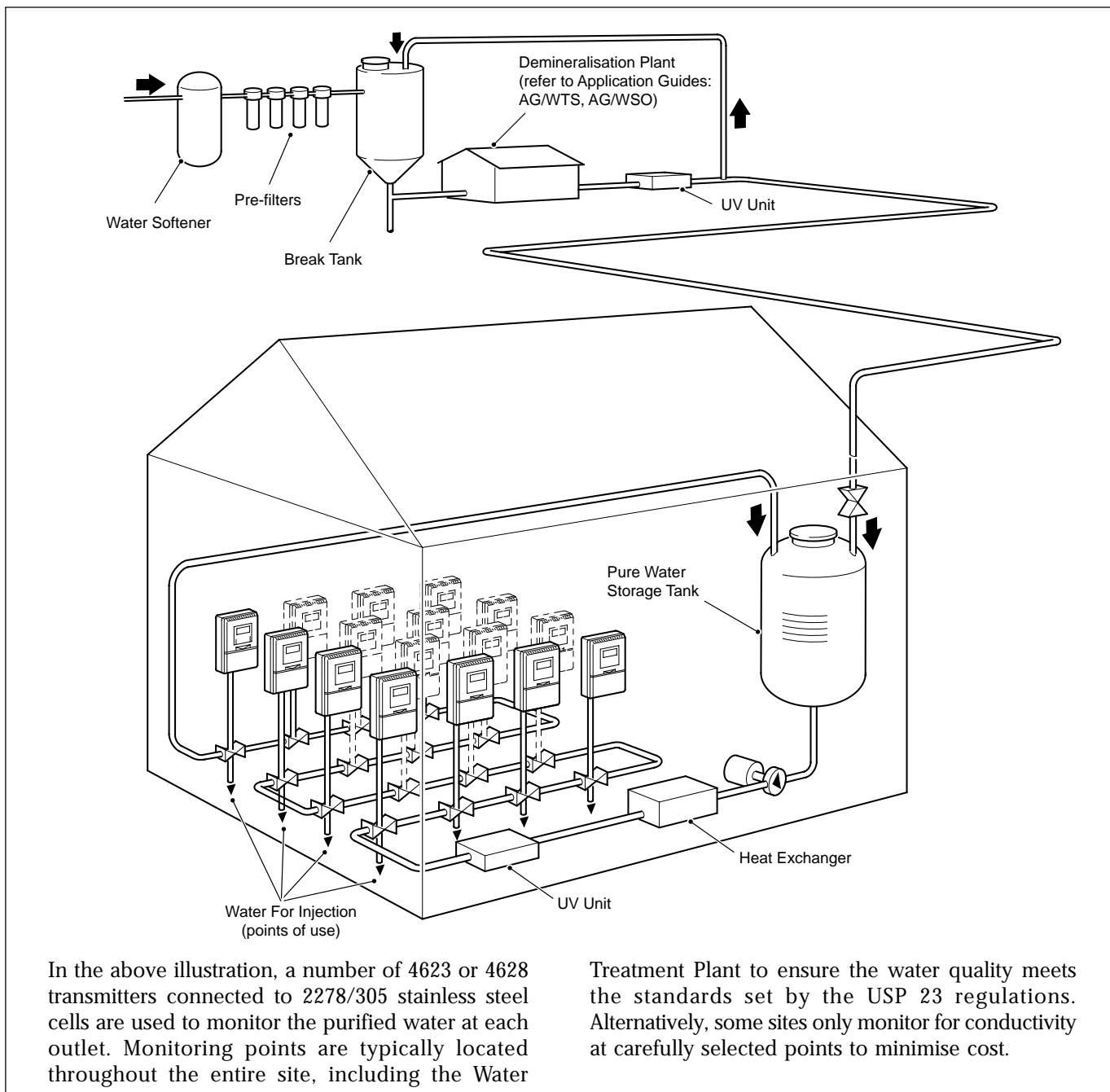


# Conductivity Monitoring Systems to meet United States Pharmacopeia (USP 23) Regulations in the Pharmaceutical Industry



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## Why use On-line conductivity monitoring on Water for Injection (WFI) ?

- ▶ To monitor the effectiveness of the water treatment plant.
- ▶ To ensure that the water for injection complies with USP 23.
- ▶ To safeguard the product.
- ▶ To enable the end product to be sold in the American market.
- ▶ To reduce the number of laboratory tests required.

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## Why use ABB Instrumentation ?

- ▶ The 4623/28 analyzers are fully compliant with USP 23:
  - supplied with traceable certificate of test,
  - validation certificates supplied to provide assurance of performance,
- ▶ Easy to use system requires no calibration on set-up.
- ▶ Simple no-fuss programming to display non-temperature compensated or compensated conductivity values.
- ▶ Simple convenient revalidation of the analyzer – no need to use external company for validation.
- ▶ NEMA4X/IP66 code (case), IP65 (electronics) – continues to operate in the most demanding environments.
- ▶ Inherent cell accuracy provided by proprietary manufacturing technique, ensures long-term high accuracy performance.
- ▶ Two current outputs facility – to enable both conductivity **and** temperature to be retransmitted.
- ▶ Integral PT100 temperature element – enables a temperature compensation to be applied and temperature values to be displayed.

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## What ABB products are suitable ?

- ▶ **Model 4623/500 (wall-mount) and 4628/500 (panel mount) Conductivity Analyzers**
- ▶ **Model 2278/305 Stainless Steel Cell**
- ▶ **Connector Cables type 0233–811/0233–819**

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## **Other ABB monitoring capabilities suitable for such plants**

- ▶ pH monitoring (4630/35–500).
- ▶ Silica monitoring (8061, Multi-stream version also available).
- ▶ Flow monitoring (MagMaster).
- ▶ Chart recorders.

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## **Installation**

- ▶ Where possible, ensure that the cell can be easily removed for testing.
- ▶ When installing, ensure the measuring electrodes remain in contact with flowing sample and there is no risk of air bubbles.



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