

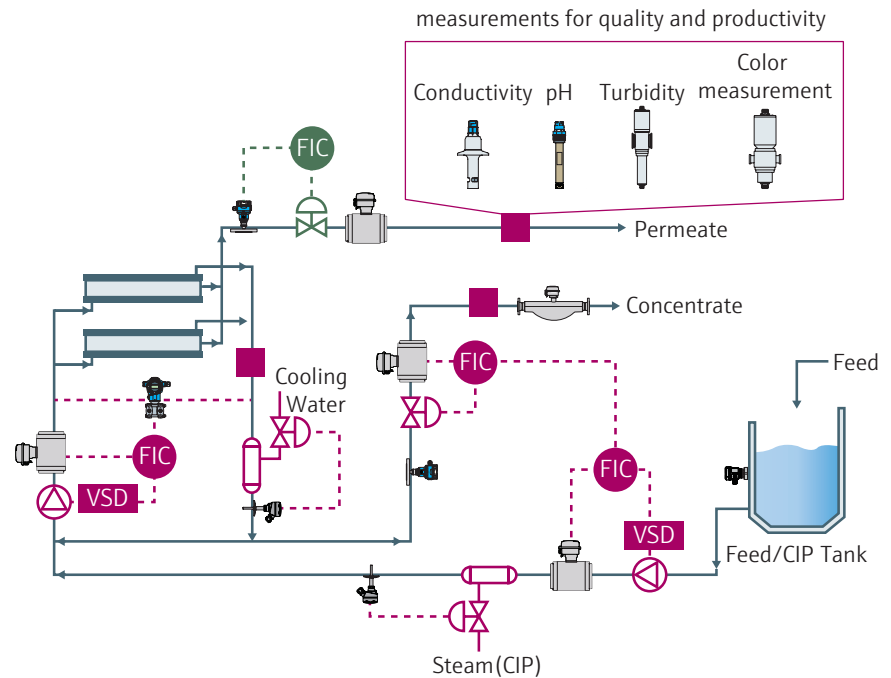
Membrane Filtration

Complete offering from Endress+Hauser

Benefits at a glance

By partnering with Endress+Hauser, the membrane skid builder can be assured of:

- Complete product portfolio makes standardization easy, simplifies integration and speeds up commissioning
- Fit for purpose solutions - choose from entry level to to high performance options depending on budget and criticality
- Take full advantage of digital integration to control system for fast commissioning, access to diagnostics and secondary measurement variables. Remote access via network using FieldCare
- Life Cycle solutions with W@M Portal/Enterprise which enables customers to better manage documentation, spare parts handling
- Procurement solutions with our online shop /e-catalog or ERP to ERP order integration which allows fast and easy ordering reducing transactional cost



Sections of a Membrane Filtration System (simplified) with optional measurements

In the food and beverage industries, membrane filtration is state-of-the-art technology for clarification, concentration, fractionation, desalting and purification of a variety of beverages for a large variety of products. With effective filtration, it may also be possible to limit use of thermal processing for food safety. The use of membrane filtration offers a wide range of advantages for the consumer as well as for the producer. On the one hand, filtration technology offers an efficient way to gain superior quality and safety without destroying the fundamental sensory qualities of the product. On

the other hand, it may reduce some production steps and increase yield, has a high degree of selectivity, improves control over the production process and has low energy costs. For membrane filtration suppliers to meet all of these requirements, they must have a reliable instrumentation partner.

The challenge Membrane Filtration suppliers must meet required throughput for their clients while at the same time meeting all regulations and quality requirements for their final products. The system must be reliable and repeatable. And, must be supported globally after the sale.

Your goals may include:

- Increasing yield
- Enhancing product quality
- Improving hygienic conditions
- Increasing production flexibility
- Reducing environmental impact

Our solution Endress+Hauser offers complete packages of products, services and solutions matched to the membrane filtration supplier's unique needs. For example:

- **Feed flow measurement is important to ensure filtration quality.** Endress+Hauser flowmeters offer the accuracy and reliability needed to ensure quality around the clock. Sensor bodies are all SS316L to ensure long term reliability
- **Membrane cross flow** must also be measured with pressure devices. Endress+Hauser offers standard metal membrane transmitters which are suitable for most applications. But, in some abrasive or corrosive media it may be necessary to have a ceramic membrane, which is a unique offering to Endress+Hauser.
- **Dosing of cleaning chemicals or microbial growth detection.** Our pH sensors can be an important part of this process. We offer non-glas pH sensors with Memo-sens and Endress+Hauser unique solutions for data and sensor management.
- **Maintain temperature for optimal filtration and reduce microbial growth.** We offer unique QuickSens for quick response to temperature changes.
- **More information at your fingertips.** With Endress+Hauser products, services and solutions you can get the most from your measurements via digital communications.

Solution details More information, better decisions.

With digital communications you can get more from your instrumentation, allowing you to make more informed decisions. Endress+Hauser is focused on open, standard technologies enabling our customers to access the data needed. Take full advantage of digital integration to your control system for easy commissioning, access to diagnostics and additional measurement variables.

Results Membrane Filtration suppliers can count on Endress+Hauser to provide them just the right products, services and solutions to match their specific needs. Let us help you meet your goals to increase yield, improve product quality, increasing your flexibility and to reduce your impact on the environment.



USA

Endress+Hauser, Inc.
2350 Endress Place
Greenwood, IN 46143
Tel: 317-535-7138
Sales: 888-ENDRESS
Service: 800-642-8737
Fax: 317-535-8498
info@us.endress.com
www.us.endress.com

ISO 9001 Certified

Endress+Hauser 
People for Process Automation