

**Liquiline®: a family you can rely on**  
High-quality transmitters, analyzers  
and samplers for future-proof plant  
design and safe operations



# They are family

Choose the Liquiline platform and you will spend less money on inventory, save installation time and gain operational safety.

**The platform** Several devices, all based on the Memosens technology, allowing multiple measurements on the same hardware: The Liquiline platform aligns inventory management and handling of transmitters, analyzers and samplers.

- Unified handling for more operational comfort and safety
- Fast commissioning and automatic sensor recognition thanks to pre-installed settings
- Standardized components for less inventory costs and long-term availability of spare parts
- Based on the Memosens® digital sensor technology you gain more efficiency and quality in liquid analysis
- Fieldbus protocols: 0/4..20 mA, HART®, PROFIBUS® DP, Modbus® TCP, Modbus® RS485, EtherNet/IP™, Webservice

**Liquiline CM44** is the most flexible Liquiline controller: It measures 12 different parameters. Adapt it to connect 1 to 8 sensors, just by adding or removing modules. Liquiline CM44 is available both as field instrument and as DIN-rail device. The robust, corrosion-resistant plastic device is suitable for many applications, for example in the following industries:

- Water / Wastewater
- Chemical
- Life Sciences
- Food & Beverages
- Power plants



**Liquiline M CM42** The two-wire transmitter for pH/ORP, conductivity and oxygen parameters stands out through safe data transmission and easy handling. User guidance and menu are equal to the Liquiline CM44. Liquiline CM42 can be connected to field buses like FOUNDATION™ Fieldbus, PROFIBUS PA and HART protocol. It is suitable for all areas of process engineering, especially in the following industries:

- Chemical processes
- Life Sciences
- Food technology
- Renewable energies
- Hazardous applications



**Liquiline CM14** The four-wire transmitter for pH/ORP, conductivity and oxygen is an instrument for basic measurement requirements. Handling is easy, though CM14 does not share hard- or software with other Liquiline devices. The compact design of Liquiline CM14 is suitable for installation in panels or cabinets and especially attractive for skid building in:

- Wastewater treatment
- Water treatment and drinking water monitoring
- Ion exchangers
- Surface water monitoring



**Liquiline To Go CYM290/CYM291** The multiparameter handhelds measure pH/ORP, conductivity and oxygen. Take them to any measuring point in your plant and you instantly know how your process is running. Both versions have a robust, shock-proof housing – the CYM291 is even suitable for hazardous area use. With Liquiline To Go handhelds you can use the same robust Memosens sensors for grab sample measurement that you use in your process. This guarantees full data consistency between your measurements.



**Analyzers** Thanks to the built-in Liquiline transmitters, operation of Liquiline System analyzers will be familiar because it is identical to the concept of other online analysis parameters such as pH or oxygen. Adapt them to connect 1 to 4 sensors just by adding modules and thus reduce the number of transmitters in your plant. Connect the sample preparation fast and easily due to Memosens technology.

- Liquiline System CA80AM ammonium
- Liquiline System CA80PH orthophosphate



**Samplers** Their built-in Liquiline transmitters make them members of the Liquiline family in terms of measurement parameters, handling, maintenance and spare parts. Adapt them to connect 1 to 4 sensors just by adding modules. Robust plastic or stainless steel housings make them suitable for all industries from wastewater to chemicals.

- Stationary sampler Liquistation CSF34
- Portable sampler Liquiport CSP44



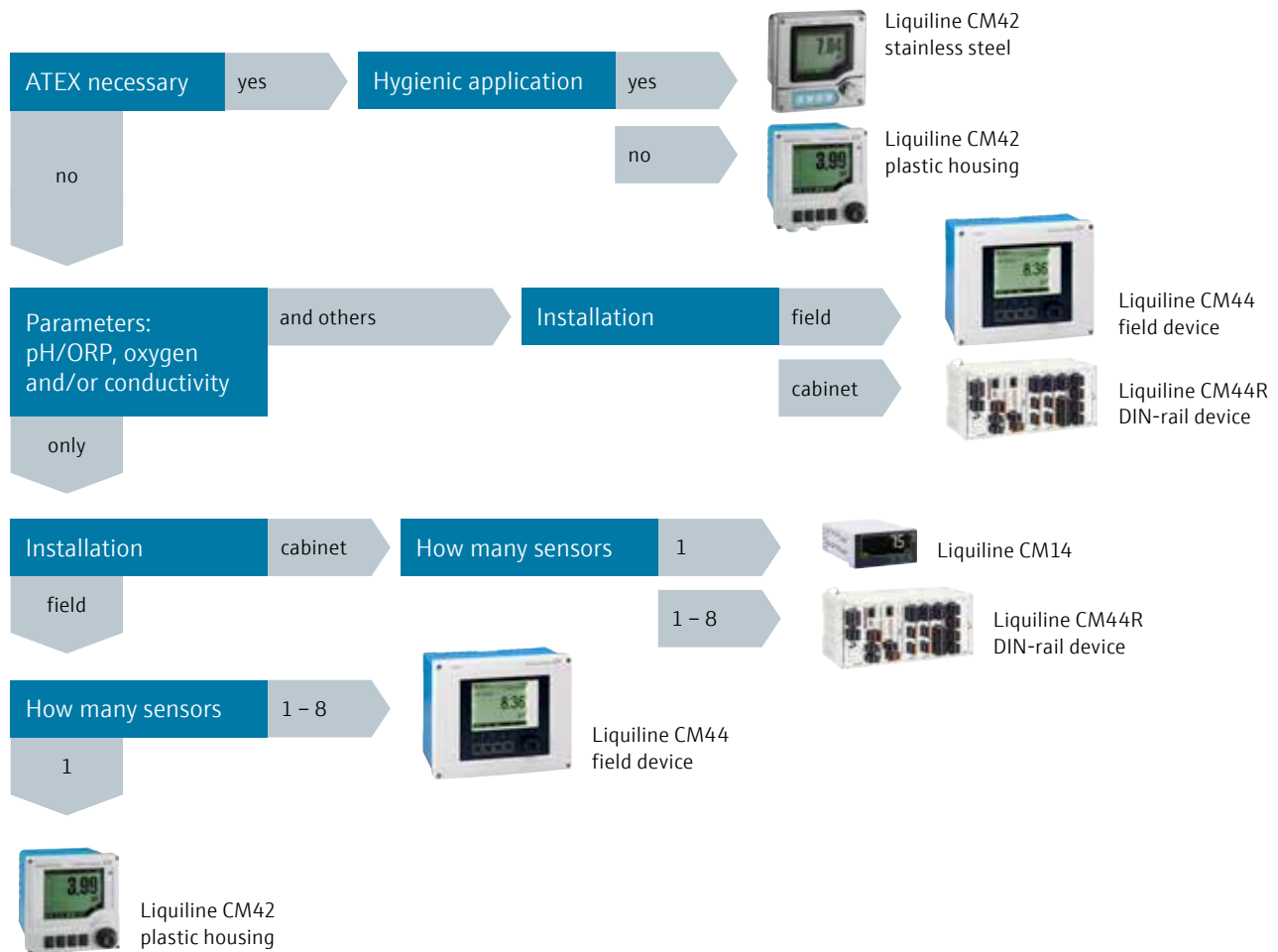
### **i** Memosens: The cutting-edge sensor technology

Memosens digitizes the measured value within the sensor and provides non-contact interference-free transfer to the transmitter. Since its introduction in 2004, it has become the worldwide leading standard in liquid analysis. Since then, a large portfolio of Memosens products enhances the safety, efficiency, transparency and quality of processes in all industries.

- Safe digital data transmission: inductive, corrosion-free, 100% reliable
- Easy-to-handle sensor connection
- Sensor head stores sensor and process specific data for predictive maintenance
- Fast plug & play with pre-calibrated sensors
- International standard



# Which transmitter fits best for your application?



**Trademarks/Copyrights**  
 Liquiline and Memosens are trademarks of Endress+Hauser. HART is a trademark of the HART Communication Foundation. PROFIBUS is a trademark of PROFIBUS and PROFINET International (PI). Modbus is a trademark of Schneider Electric. EtherNet/IP is a trademark of ODVA, Inc. FOUNDATION Fieldbus is a trademark of The Fieldbus FOUNDATION. All other trademarks are the properties of their respective owners. All other copyrights are the properties of their respective owners.

Give us your feedback:  
[www.endresslistens.com](http://www.endresslistens.com)



USA	Canada	Mexico	Other locations
Endress+Hauser, Inc. 2350 Endress Place Greenwood, IN 46143 Tel: 317-535-7138 888-ENDRESS (888-363-7377) Fax: 317-535-8498 info@us.endress.com www.us.endress.com	Endress+Hauser Canada 1075 Sutton Drive Burlington, ON L7L 5Z8 Tel: 905-681-9292 800-668-3199 Fax: 905-681-9444 info@ca.endress.com www.ca.endress.com	Endress+Hauser México S.A. de C.V. Fernando Montes de Oca 21 Edificio A Piso 3 Fracc. Industrial San Nicolás 54030 Tlalnepantla de Baz Estado de México México Tel: +52 55 5321 2080 Fax: +52 55 5321 2099 eh.mexico@mx.endress.com www.mx.endress.com	<a href="http://www.addresses.endress.com">www.addresses.endress.com</a>

CP01050C/24/FEN/02.15  
 (02.2017)  
 © Endress+Hauser, Inc. 2017