



ATEX - compliant measurements

pH AND CONDUCTIVITY IN EXPLOSIVE AREAS



a xylem brand

ATEX products of WTW

Safe reliable measurements

You have an EX area and want to measure inside?

For measurements in explosive atmospheres (EX area), WTW offers the complete EX measuring point with sensors, EX-compliant accessories, EX-transmitter, isolated amplifier and certificates.

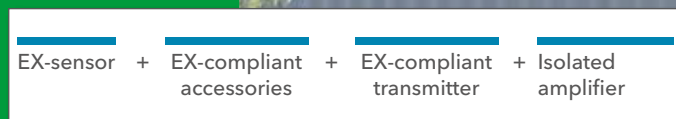
COMPETENT

- ✓ All important aspects on the EX-zone are summarized clearly in our primer



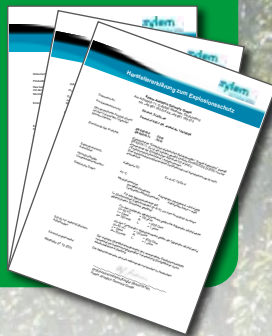
COMPLETE

- ✓ All components for your EX measuring point are available



COMFORTABLE

- ✓ Everything with certificate acc. to guideline 2014/34/EU (before: 94/9/EG)



Open questions?

Ask us for information and advice or request our primer at no charge (order number: 999135US).



The EX-Zone

EX measuring point including EX-compliant accessories
Certified for zone 1 IIB and IIC T6, respectively



WTW device certification

Your measuring point in detail ...

... within the EX-zone

- Proven SensoLyt® 650-7 as EX-version for analog SensoLyt® EX-electrodes
- Robust TetraCon® 700- ... sensor as EX-version
- Powerful EX-transmitter with 1 or 2 current outputs
- EX-compliant accessories like cable, mountings, holdings, etc.

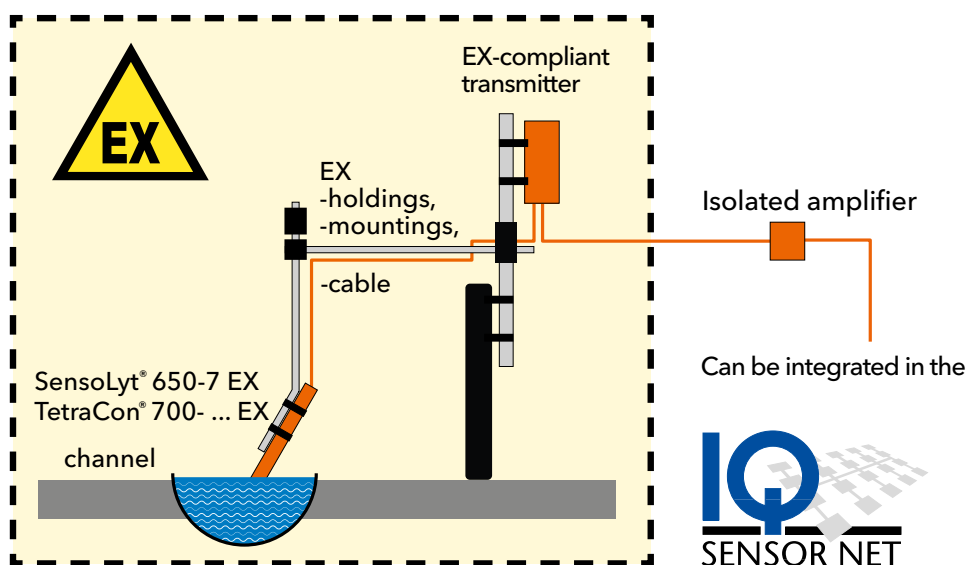
... outside of the EX-zone

Isolated amplifier with options for ...

- Auxiliary voltage
- HART®-communication

... easy to integrate into the IQ SENSOR NET.

Configuration example



With the EX products, WTW expands its portfolio and the diversity of the IQ SENSOR NET.

Technical data

		Transmitter	
	pH	conductivity	
Display range	-2,00 ... +16,00	0,000 µS/cm ... 999,9 mS/cm	
Outputs	2 outputs with 4 ... 20mA (22mA at error message)		
Measured variable	pH or mV or Temperature	Conductivity, spec. resistance, concentration, salinity or temperature	
Explosion protection	II 1G Ex ia IIC T4		
EMC	EN 61326-1		
LC-Display	main display, secondary display, text line, Sensoface®, status display		

		Isolated amplifier	
Measuring circuit	intrinsically voltage supply $\geq 18V$		
Output	4 ... 20mA		
Construction	Modular case A7, with snap-on mounting for top-hat rail 35mm according to DIN EN 50022		
Protection	Housing IP40, Clamps IP20		
EMC	EN 61326-1		
Explosion protection	II (1)G [Ex ia Ga] IIC		

Integration into the IQ SENSOR NET*



*With the IQ SENSOR NET several additional parameters can be measured - visit our website www.wtw.de/en/iqsn (For convenience use our QR code).

Order information

		Order No.
Analog SensoLyt® armature		
SensoLyt® 650-7 EX	pH armature with high impedance signal output, cable length 7m (for SensoLyt® SEA EX, SEA-HP EX, DWA EX, ECA EX, PtA EX)	109 195 EX
SensoLyt® electrodes		
SensoLyt® SEA EX	pH-electrode, measurement range 2 ... 12 pH, for installation in SensoLyt® 650-7 EX	109 115 EX
SensoLyt® SEA-HP EX	pH-electrode, measurement range 4 ... 12 pH, for installation in SensoLyt® 650-7 EX	109 118 EX
SensoLyt® DWA EX	pH-electrode, measurement range 0 ... 14 pH, for installation in SensoLyt® 650-7 EX	109 119 EX
SensoLyt® ECA EX	pH-electrode, measurement range 2 ... 12 pH, for installation in SensoLyt® 650-7 EX	109 117 EX
SensoLyt® PtA EX	Redox-electrode, measurement range ±2000 mV, for installation in SensoLyt® 650-7 EX	109 125 EX
Analog conductivity sensors		
TetraCon® 700-1,5 EX	conductivity sensor for water/sewage water, cable length 1,5 m, measurement range 10 µS/cm ... 1000 mS/cm	302 314 EX
TetraCon® 700-7 EX	conductivity sensor for water/sewage water, cable length 7 m, measurement range 10 µS/cm ... 1000 mS/cm	302 316 EX
TetraCon® 700-15 EX	conductivity sensor for water/sewage water, cable length 15 m, measurement range 10 µS/cm ... 1000 mS/cm	302 318 EX
Transmitters		
StratosProA201xpH-0	Transmitter for pH with 1 current output	109 444 EX
StratosProA201xpH-1	Transmitter for pH-Werte with 2 current outputs	109 445 EX
StratosProA201xCond-0	Transmitter for conductivity with 1 current output	300 944 EX
StratosProA201xCond-1	Transmitter for conductivity with 2 current outputs	300 945 EX
Isolated amplifiers		
WG21A7	Isolated amplifier	109 446 EX
WG21A7 Opt. 336	Isolated amplifier, with auxiliary voltage 24 V AC/DC	109 447 EX
WG21A7 Opt. 470	Isolated amplifier, with HART®-communication	109 448 EX
WG21A7 Opt. 336,470	Isolated amplifier, with auxiliary voltage 24 V AC/DC and HART®-communication	109 449 EX