



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

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Global Product Marketing and Multiple Product Certification

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Slide 1

Endress+Hauser 

People for Process Automation



The Endress+Hauser Group- People for process automa



- Holding company in Reinach, Switzerland
- 19 production facilities in 11 countries
- Sales centers in more than 40 countries
- Representatives in over 70 other countries
- 8400 Employees worldwide
- 1,1 Billion Euro Turnover in 2009



Global product marketing and multiple certification

Our customers

Endress+Hauser provides safe and reliable instrumentation for many industries



Chemicals

We make processes safe



Food & Beverages

We ensure absolute hygiene



Environmental

We take care of our environment



Life Science

We observe the highest standards



Oil & Gas

We guarantee high accuracy



Power & Energy

We help to use resources efficiently



Primaryes & Metal

We provide robust solutions



Renewable Energies

We focus on sustainable development



Pulp & Paper

We support with modern techniques



Marine Business

We combine tradition with innovation

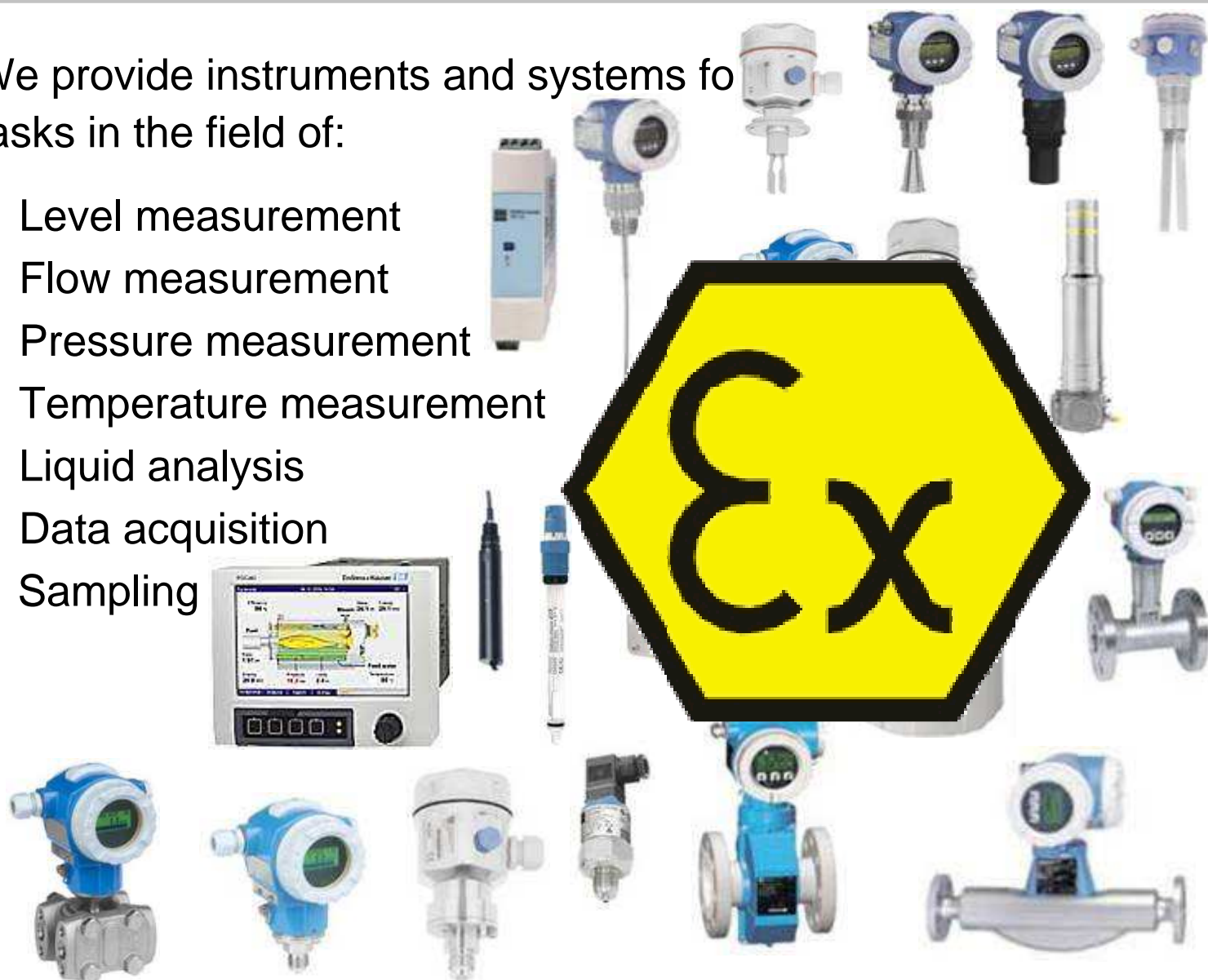
We speak the language of our customers!



Process Instrumentation

We provide instruments and systems for tasks in the field of:

- Level measurement
- Flow measurement
- Pressure measurement
- Temperature measurement
- Liquid analysis
- Data acquisition
- Sampling





Global product approvals for Process Instrumentation

Markets	Europe	USA	Canada	Japan	Russia	China	Australia
Approvals							
Electromagnetic compatibility	EMC (CE-mark) Manufacturer	UL	CSA				C-Tick
Electrical Safety	LVD (CE-mark) Manufacturer	FM, UL	CSA	Manufacturer	GOSST	CCC	Manufact.
Explosion Safety	ATEX (CE-mark) PTB, Exam, TÜV ... KEMA, LCIE, BASEEFA, FTZU	NRTLs e.g. FM,UL	CSA, FM, UL	TIIS	GOSST	NEPSI	IEC Ex Testsafe
Metrology	MED (CE-mark) PTB, NMI				GOSST	PAC	
Radio Equipment	RTTE (CE-mark) RegTP, SEE, Senton	FCC	IC Canada				
Pressure vessels	PED (CE-mark) TÜV		CRN				
Nuclear Power Plants	National Regulations (e.g. TÜV, EDF...)						
Food Equipment	EHEDG Weihenstefan,TNO, ...	3A-San. Standard					
Functional safety IEC 61508/61511	e.g. TÜV, Exida, UL, FM						
Marine Equipment	GL, LR,DNV, BV, RINA	ABS		NK			

Others: India, South-Korea, Singapore, Brazil, South-Africa ...
In total 2700 current product certificates

Self-assessment

Third party approval

Current Situation for Endress+Hauser

Endress+Hauser serves the global market - consequences:

- For global sales **national certificates** for many countries/regions required (e.g. Europe, North America, China, Japan)
- Several **surveillance systems** with many factory audits (approx. 8-10 Ex-audits per year and factory location!)
- Extensive costs and long **time to market!**
 - **>100.000 Euro** certification fees per product
 - **1..2 years** delay to global market



The IEC Ex System – a short track to the global market

- Scope of the IEC Ex System
- Current situation for a manufacturer of Ex equipment
- Experience with the IEC Ex system
- Expectations and Vision



Scope of the IEC Ex System

- The IECEx Certified Equipment Scheme
- The IECEx Certified Service Facilities Scheme
- The IECEx Conformity Mark Licensing System
- The IECEx Certification of Personnel Competencies (CoPC)



Global Ex-certificates

Market	Europe (ATE)	USA	CAN	China	Japan	Australia (IEC Ex)	others	Total
Market share	37 %	8 %	3 %	8,5 %	3,2%	< 2%	18,3%	100%
No. Certificates	282	178	190	120	193	91	246	1300
No. Audits p.a.	1	4	4	-	-	1	~1	~ 10



Experience with the IEC Ex system

Acceptance of IEC Ex certificate (CoC)

- CoC legally acknowledged in Australia and New Zealand ☺
 - no national Certificate required ☺
 - direct trade with IEC Ex certified equipment (Group II) ☺
- CoC legally not accepted in other global countries ☹

Acceptance of IEC Ex Testreport (ExTR)

- Ex TR accepted in over 30 IEC Ex member states ☺
- National Certificates issued based on ExTR ☺

Acceptance of IEC Ex Quality Assessment:

- QAR of any ExCB accepted internally in the IEC Ex system ☺
- **QAR for national certification not accepted** ☹

IEC Ex System – our expectation



- globally accepted IEC Ex Testreport
- globally accepted IEC Ex Certificate
- globally accepted surveillance (QAF)
- avoid multiple testing and audits!
- reduce time to market!



Only a vision ?