



BITA SUPPLY
INDUSTRIAL EQUIPMENT

Steel, Oil, Gas & Petrochemical

<https://bita-tamin.com>



OVERVIEW



MECHANICAL



INSTRUMENTS



Control Systems



Hseq Systems



VALVES



MOTORS



Hydraulics
Pneumatics

ABOUT



Reliable, Universal Solutions for Your Process Re-quirements

BITA TAMIN is an international procurement company for industrial manufacturing plants. Our main goal is to support companies to keep their production lines moving. We offer a personalized service in order to make our customers accomplish their goals in cost reduction and making them consider us a partner as their main point of support

MORE CHOICE

BITA TAMIN offers multiple Brands to suit what you need at all times. Whether you are looking for a more product choice, we are here to help

FOR SIMPLICITY

BITA TAMIN supports you as a unique partner with the supply of all kinds of process and control automation equipments of the main Bands used in the industrial manufacturing plants in all sectors

MORE SUPPORT

BITA TAMIN Industrial complements a quality service with the commitment to give a quick and effective response within 24 hours. We know how important it is to our customers that they can count on us at anytime



Nader Nazari
Chief Executive Officer

Bita Industrial Equipment Supply

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Nelson Mandela Blvd., Tehran, Iran
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T: +98 21 8878 7875
F: +98 21 88779 7150
Email: nazari@bita-tamin.com

We supply global brands

OUR MISSION AND CORPORATE VALUES

Our mission as a company is to offer the best distribution service of industrial process equipments for the worldwide automation industry, being an international well known provider for industrial manufacturing plants in the world



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ABOUT BITA TAMIN

BITA TAMIN having the same bussiness concept, which guide our professional actions based on:



We are sure that being good at what we do is not enough, there is always something else to do. It is confidence we inspire to our customers and the relationship we build with them that makes the difference. We are convinced that our honesty in the service we offer, the quality of the products and its guarantee is what makes our customers rely on us



Our idea of "**Team Work**" goes beyond the internal union of all people who are part of BITA TAMIN. We want our customers to also be a member of our team working together to understand which is the best way to adapt our service to their company.



For BITA TAMIN, "**Proactivity**" is synonymous with being ready and getting ahead of problems, therefore we are constantly looking for improvements in our process in order to be able to offer the highest possible quality in our service



We love what we do. We believe that the key to professional success is not just about hard work, but doing it with drive and enthusiasm, keeping always in mind that the best is yet to come.



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"We are the people who provide innovative solutions to industrial sector businesses, enabling them to achieve greater efficiencies and ultimately increase their profitability. Our broad skill-base means that the projects we work on span a wide range of industries and applications. We focus on the below specific industries. This allows us to better support our customers and provide tailor-made products, solutions and services."



OIL & GAS



PETROCHEMICAL



WATER & WASTE WATER



CEMENT



IRON & STEEL



FOOD & BEVERAGE



ENVIRONEANTAL



CONSTRUCTION



PULP & PAPER



OVERVIEW



MECHANICAL



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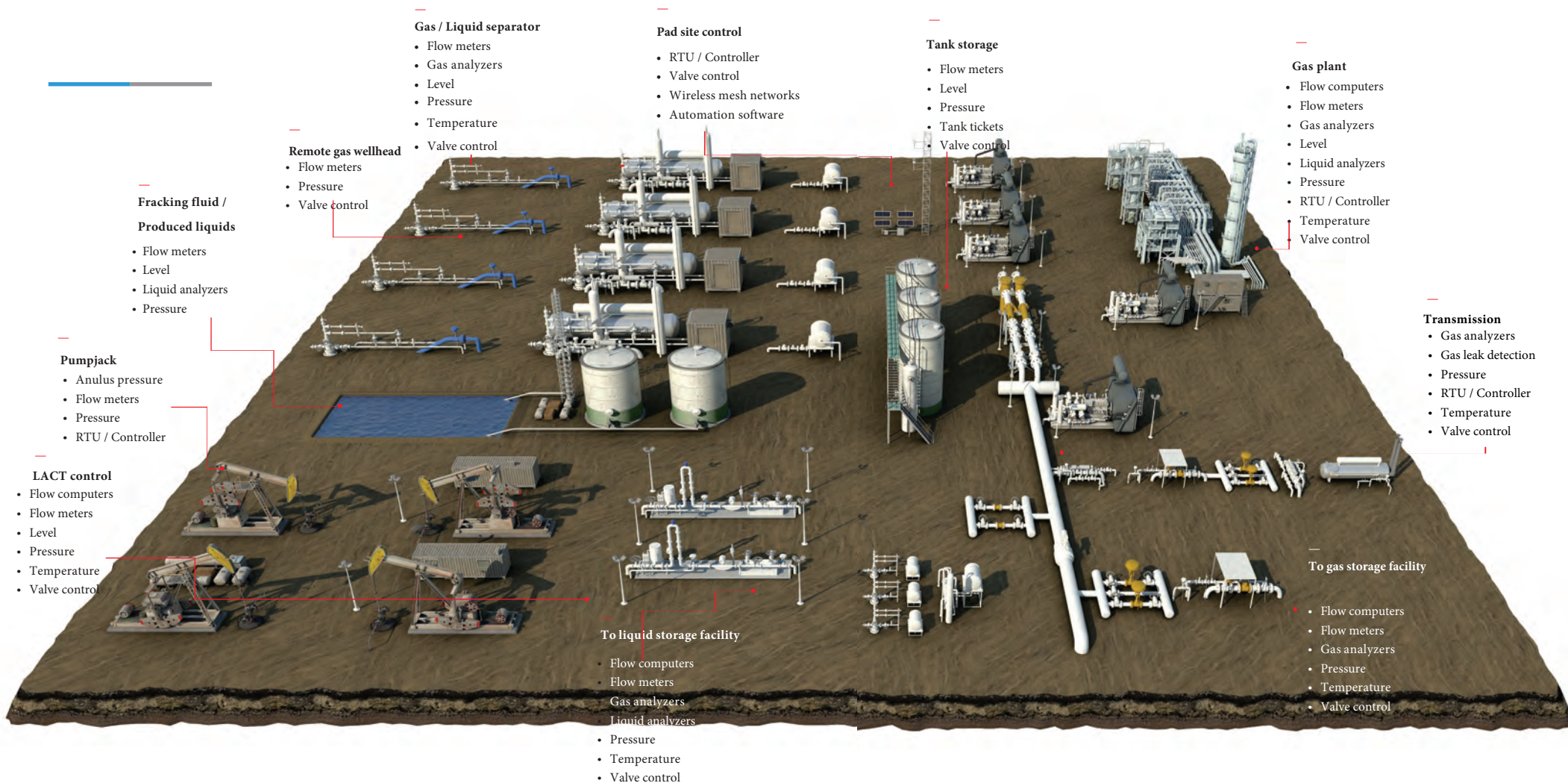
MOTORS



Hydraulics
Pneumatics

INSTRUMENTS

ARRANGEMENT OF "INSTRUMENTS" IN A PLANT



04 INSTRUMENTS

CONTENTS

FLOW MEASUREMENTS

- Coriolis mass flowmeters
- Thermal mass flowmeters
- Electromagnetic flowmeters
- Ultrasonic flowmeters
- Flow computers
- Vortex flowmeters
- Rotameters
- Turbinemeters
- Bulk flowmeters
- Positive Displacementmeters

- Flow Swithes

LEVEL MEASUREMENTS

- Guided radar measurement
- Radar level measurement
- Hydrostatic level measurement
- Ultrasonic level measurement
- Vibronic level measurement
- Sound level measurement
- Capacitance level measurement
- Servo level measurement
- Conductive level measurement
- Radiometric level measurement
- Electromechanical level measurement
- Float switch level measurement
- Paddle switch level measurement
- Microwave barrier level measurement

PRESSURE MEASUREMENTS

- Absolute and gauge pressure measurement
- Differential pressure measurement
- Pressure switches
- Pressure sensors

- Pressure transmitters

TEMPERATURE MEASUREMENTS

- Industrial Temperature Sensors
- Sanitary thermometers
- High temperature thermometers
- Heavy duty thermometers
- Compact thermometers
- Multipoint temperature sensors
- Temperature switches
- Temperature Transmitters
- Thermowells
- Surface thermometers
- Cable probes

SYSTEM PRODUCTS

- Process indicators & control units
- Data managers & data loggers
- Cable Probe
- Calibration Devices
- EX. - JUNCTION BOX
- ORIFICE PLATE
- INSTRUMENT TUBE & FITTING
- VENTURI TUBE AND NOZZLE

+
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PAGES



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MOTORS



HYDRAULIC PNEUMATIC

INSTRUMENTS

PRODUCT

FLOW MEASUREMENT

CORIOLIS- THERMAL MASS FLOWMETERS

MNF

BRANDS

LIQUIDS

	Clean Liquid	Dirty Liquid	Abrasive / Slurry	Corrosive	High Pressure	Density, Concentration	Cryogenic	High Temp	Mass Flow	Low Flow Rates	Low Conductivity
Coriolis Flow Meter	■	■	○	○	■	■	■	■	■	■	■
Magnetic Flow Meter (4-wire)	■	■	■	■	○			○	○	○	■
Magnetic Flow Meter (2-wire)	■	○	■	○	○			○	○		
Capacitance Magnetic Flow Meter	■	■	■	■	○			○	○		■
Vortex Flow Meter	■	○		○	■		■	■	■		■
Variable Area Flow Meter	■	○		■	○		■	■	○	■	■
Differential Pressure (DP) Flow Meter	■	○	○	○	■		○	○	■	■	■

■ Designed for this service

○ Applicable for this service under certain conditions - consult manufacturer

GAS & STEAM

	Clean Gas	Dirty Gas	Corrosive	Low Pressure	Saturated Steam	Superheated Steam	Cryogenic	High Temp	Mass Flow	Low Flow Rates
Coriolis Flow Meter	■	■	○	○		■	■	■	■	■
Vortex Flow Meter	■	○	○	■	■	■	■	■	■	
Variable Area Flow Meter	■	○	○	■	■	■	■	■	○	■
Differential Pressure (DP) Flow Meter	■	○	○	■	■	■	○	○	○	■

■ Designed for this service

○ Applicable for this service under certain conditions - consult manufacturer



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FLOW MEASUREMENT

CORIOLS- THERMAL MASS FLOWMETERS

MNF

BRANDS



FLOW MEASUREMENT

CORIOLS- THERMAL MASS FLOWMETERS

MNF

ORIJIN

- | | |
|------------------|----------|
| BAILEY | UK |
| BOPP & REUTHER | GERMANY |
| EMERSON | UK |
| ENDRESS & HAUSER | GERMANY |
| HONEYWELL | W.EUROPE |
| KROHNE | GERMANY |
| KOBOLD | W.EUROPE |
| OVAL | JAPAN |
| YOKOGAWA | JAPAN |



S-Shape LZYN(DN50-80)



W-Shape LZYN(DN8-250)



U-Shape LZYN(DN3-25)



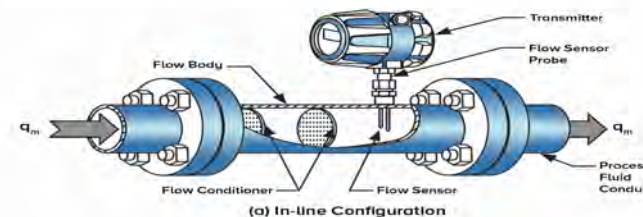
U-Shape LZYN(DN40-300)



Insertion Type Flowmeter



Inline Type Flowmeter





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FLOW MEASUREMENT

ELECTROMAGNETIC FLOWMETERS

MNF

BRANDS



FLOW MEASUREMENT

ELECTROMAGNETIC FLOWMETERS

MNF

ORIJIN

- | | |
|-------------------|----------|
| ASA SRL | ITALY |
| AZBIL CORPORATION | JAPAN |
| BOPP & REUTHER | W.EUROPE |
| EMERSON | UK |
| EMKOMETER | CZECH |
| ENDRESS & HAUSER | GERMANY |
| FUJI | JAPAN |
| KROHNE | GERMANY |
| KOBOLD | W.EUROPE |
| SIEMENS | GERMANY |
| YOKOGAWA | JAPAN |
| WIKA | GERMANY |





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FLOW MEASUREMENT

ULTRASONIC FLOWMETERS

MNF

BRANDS



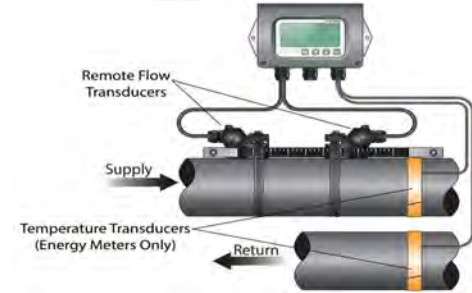
FLOW MEASUREMENT

ULTRASONIC MASS FLOWMETERS

MNF

ORIJIN

- | | |
|----------------------|-----------------|
| EMKOMETER | CZECH |
| FAURE HERMAN | FRANCE |
| FUJI | JAPAN |
| KROHNE | GERMANY |
| METERING & TECH. SAS | FRANCE |
| INSTRUMENT | THE NETHERLANDS |
| SICK | GERMANY |





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FLOW MEASUREMENT

FLOW COMPUTER

MNF

BRANDS



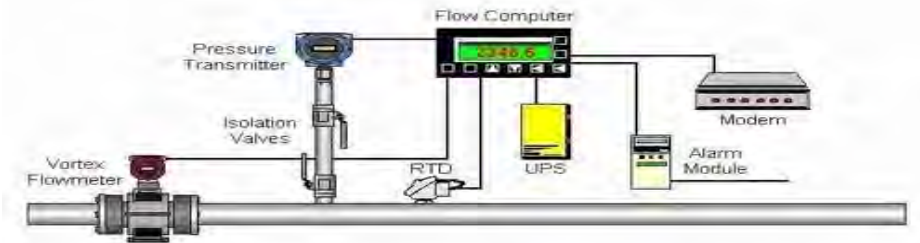
FLOW MEASUREMENT

FLOW COMPUTER

MNF

ORIJIN

- | | |
|------------------|-----------------|
| EMERSON | UK |
| ENDRESS & HAUSER | GERMANY |
| FLUIDWELL BV | NEDERLANDS |
| KROHNE | GERMANY |
| OVAL | JAPAN |
| YOKOGAWA | JAPAN |
| SPRIT IT | THE NETHERLANDS |





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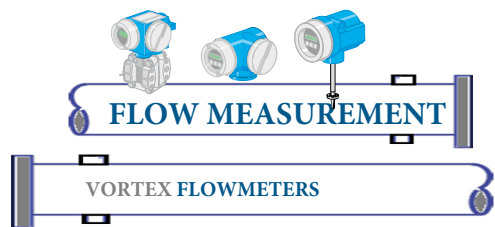
PRODUCT

FLOW MEASUREMENT

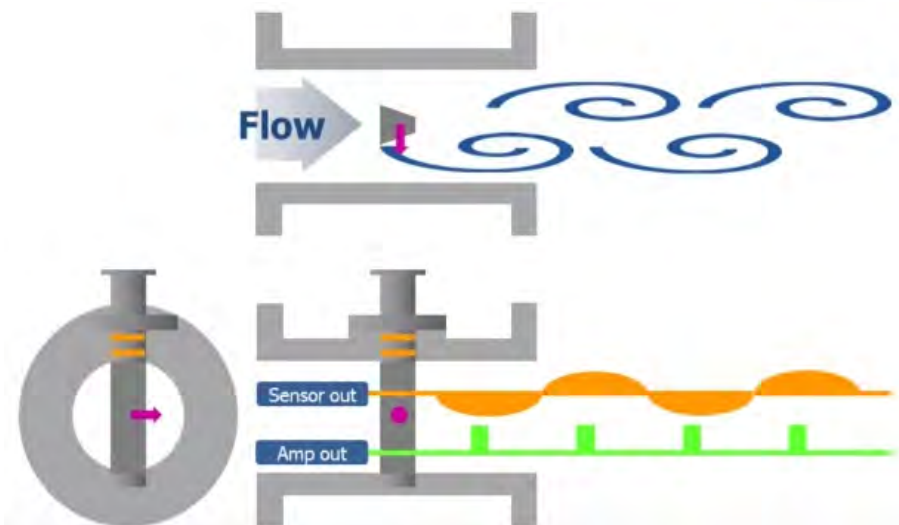
VORTEX FLOWMETERS

MNF

BRANDS



- | | |
|----------------|-------------|
| BOPP REUTHER | GERMANY |
| DELTA CONTROLS | UK |
| EMERSON | UK / FRANCE |
| HONTZSCH | GERMANY |
| KROHNE | GERMANY |
| OVAL | JAPAN |
| YOKOGAWA | JAPAN |





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FLOW MEASUREMENT

ROTAMETERS

MNF

BRANDS



FLOW MEASUREMENT

ROTAMETERS

MNF

ORIJIN

- | | |
|-------------------|-------------|
| ASA SRL | ITALY |
| BOPP & REUTHER | UK |
| DOHKITA | JAPAN |
| EMERSON | UK / FRANCE |
| EMKOMETER | CZECH |
| KOBOLD | W.EUROPE |
| KROHNE | GERMANY |
| RYUKI | JAPAN |
| WISE CONTROL INC. | SOUTH KOREA |
| YOKOGAWA | JAPAN |



Bopp & Reuther



EMKOMETER



RYUKI

東京流機工業株式会社
TOKYO RYUKI KOGYO CO., LTD.

WISE®

YOKOGAWA





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TURBINEMETERS

MNF

BRANDS



FLOW MEASUREMENT

TURBINEMETERS

MNF

ORIJIN

BOPP & REUTHER	W.EUROPE
EMERSON	UK / FRANCE
FAURE HERMAN	FRANCE
METERING & TECH. SAS	FRANCE
OVAL	JAPAN
SCHLUMBERGER	FRANCE
SMITH	UK





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FLOW MEASUREMENT

POSITIVE DISPLACEMENT METERS

MNF

BRANDS



FLOW MEASUREMENT

POSITIVE DISPLACEMENT METERS

MNF

ORIJIN

AZBIL CORPORATION
 BOPP & REUTHER
 EMERSON
 EMKOMETER
 OVAL
 SIEMENS
 SMITH

JAPAN
 W.EUROPE
 UK / FRANCE
 CZECH
 JAPAN
 GERMANY
 UK





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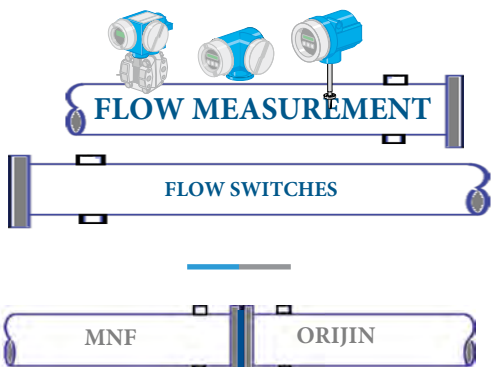
PRODUCT

FLOW MEASUREMENT

FLOW SWITCHES

MNF

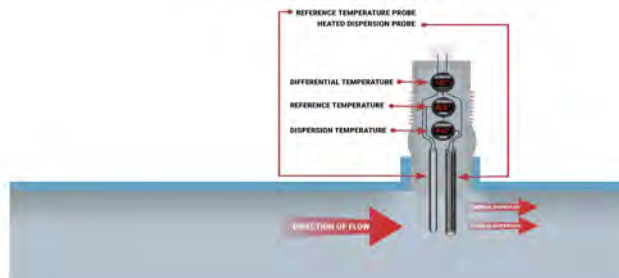
BRANDS



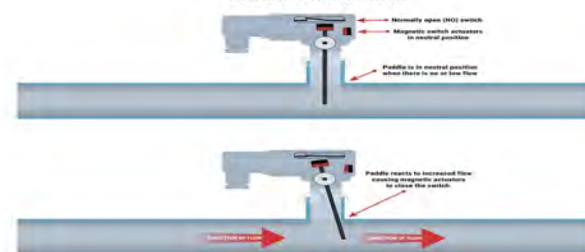
- | | |
|----------------|-------------|
| DELTA CONTROLS | UK |
| EMERSON | UK / FRANCE |
| EMKOMETER | CZECH |
| KOBOLD | GERMANY |
| KROHNE | GERMANY |
| KSR KUEBLER | GERMANY |



THERMAL DISPERSION FLOW SWITCH



PADDLE TYPE FLOW SWITCH



PISTON TYPE FLOW SWITCH





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PRODUCT

LEVEL MEASUREMENT

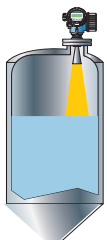
GUIDED-RADAR LEVEL MEASUREMENT

MNF

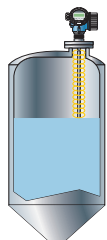
BRANDS

Continuous level measurement in liquids

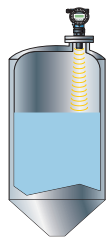
Radar



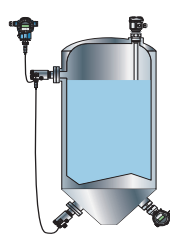
Guided Wave Radar



Ultrasonic



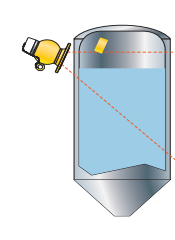
Hydrostatic



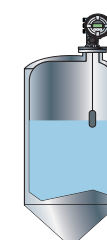
Capacitance



Radiometry

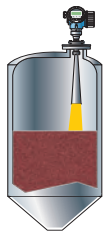


Servo

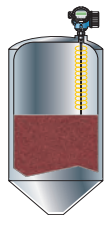


Continuous level measurement in bulk solids

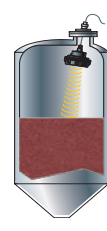
Radar



Guided Wave Radar



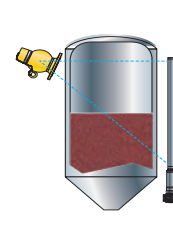
Ultrasonic



Electromechanical

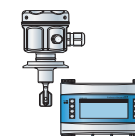


Radiometry

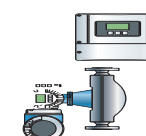


Density measurement

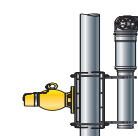
Vibronic



Coriolis

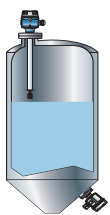


Radiometry

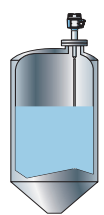


Point level detection in liquids

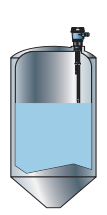
Vibronic



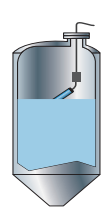
Capacitance



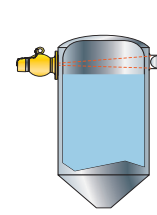
Conductive



Float switch

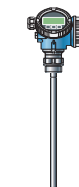


Radiometry



Interface measurement

Guided radar

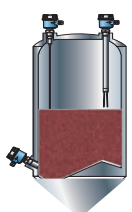


Capacitance

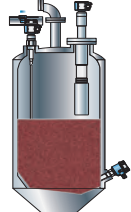


Point level detection in bulk solids

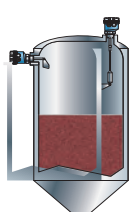
Vibronic



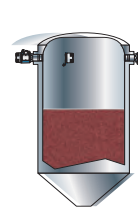
Capacitance



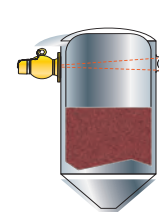
Paddle



Microwave barrier



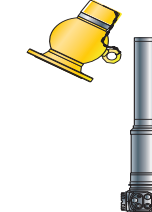
Radiometry



Capacitance



Radiometry





OVERVIEW



MECHANICAL



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HYDRAULIC PNEUMATIC

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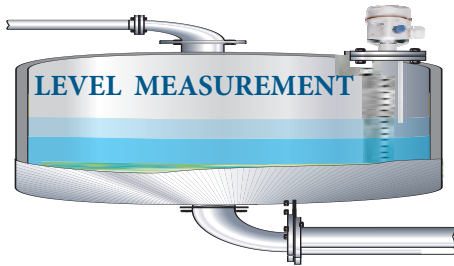
PRODUCT

LEVEL MEASUREMENT

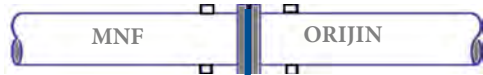
GUIDED-RADAR LEVEL MEASUREMENT

MNF

BRANDS



Guided radar level measurement Radar level measurement



MNF	ORIJIN
EMKOMETER	CZECH
ENDRESS & HAUSER	GERMANY
FLUIDWELL BV	NEDERLANDS
HONEYWELL ENRAF	THE NETHERLANDS
KROHNE	GERMANY
PANAMETRICS	JAPAN
SAAB ROSEMONT	SWEDEN
SAKURA ENDRESS	JAPAN
VEGA	GERMANY
WHESOE VAREC	UK



EMKOMETER



Honeywell
Enraf

KROHNE



SAAB ROSEMONT
Tank Control

VEGA





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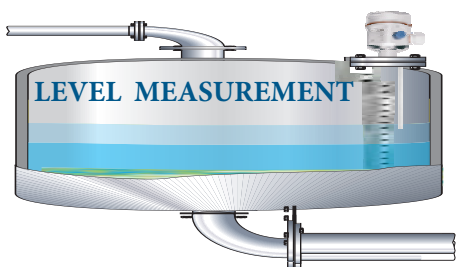
PRODUCT

LEVEL MEASUREMENT

HYDROSTATIC LEVEL MEASUREMENT

MNF

BRANDS



Hydrostatic level measurement



- | | |
|--------------------|-------------|
| AMETEK | USA |
| APLISENS | POLAND |
| ASIT GE | ITALIA |
| BCM SENSOR | BELGIUM |
| DELTA MOBREY | UK |
| ENDRESS+HAUSER | GERMANY |
| KELLER PRESSURE | SWITZERLAND |
| STS SENSOR TECHNIK | SWITZERLAND |
| GHM GROUP | GERMANY |
| RIELS INSTRUMENTS | ITALY |





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HYDRAULIC PNEUMATIC

INSTRUMENTS

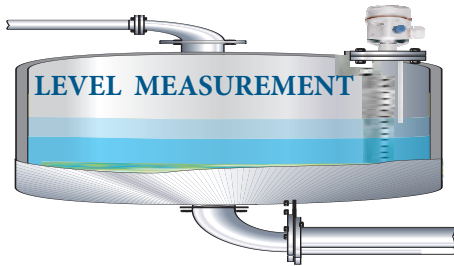
PRODUCT

LEVEL MEASUREMENT

ULTRASONIC LEVEL MEASUREMENT

MNF

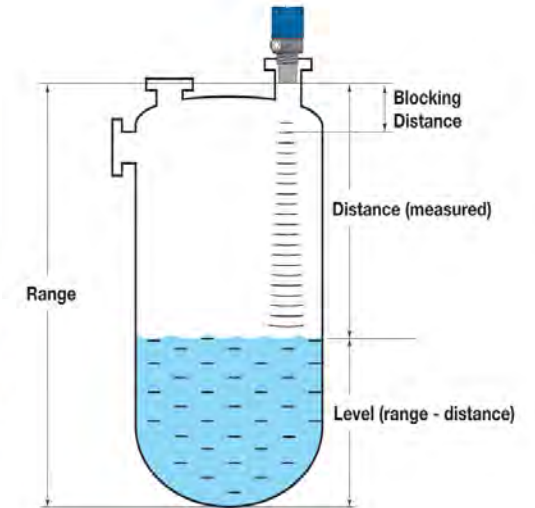
BRANDS



Ultrasonic level measurement



- | | |
|----------------------|-------------|
| ABB | GERMANY |
| AMETEK | WEST EUROPE |
| BAUMER | SWITZERLAND |
| APPLIED MEASUREMENT | UK |
| EMERSON | WEST EUROPE |
| ENDRESS HAUSER | GERMANY |
| KROHNE | GERMANY |
| PEPPERL FUCHS PULSAR | UK |
| SIEMENS | GERMANY |
| VEGA | GERMANY |





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CONTROL SYSTEMS



HSEQ SYSTEMS



MOTORS



HYDRAULIC PNEUMATIC

INSTRUMENTS

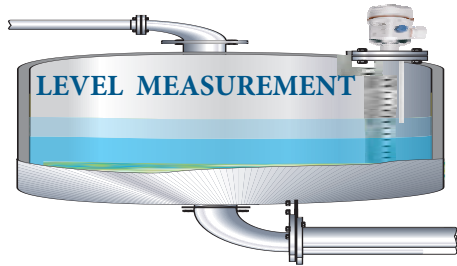
PRODUCT

LEVEL MEASUREMENT

VIBRONIC LEVEL MEASUREMENT

MNF

BRANDS



Vibronic level measurement
Sound level measurement

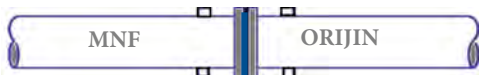
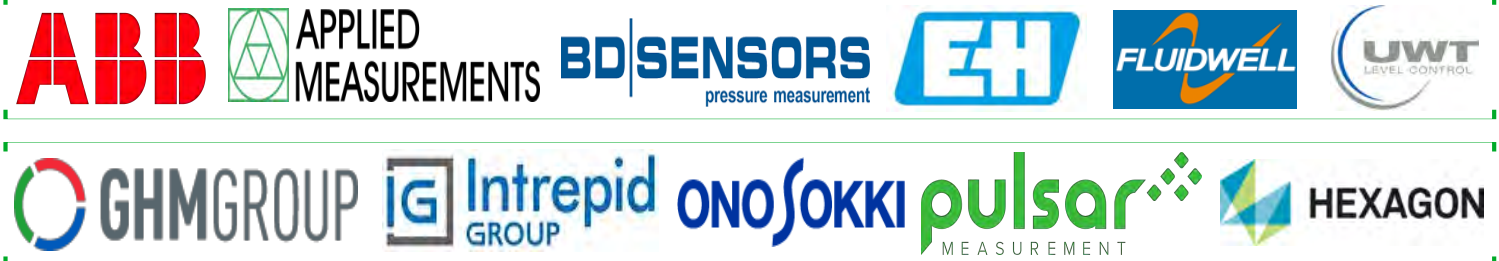


ABB	GERMANY
APPLIED MEASUREMENT	UK
BD SENSORS	GERMANY
ENDRESS HAUSER	GERMANY
FLUIDWELL	NETHERLAND
GHM GROUP	GERMANY
INTREPID GROUP	CANADA
ONOSOKKI	JAPAN
PULSAR	UK
UWT LEVEL CONTROL	GERMANY
HEXAGON	SWEDEN





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HYDRAULIC PNEUMATIC

INSTRUMENTS

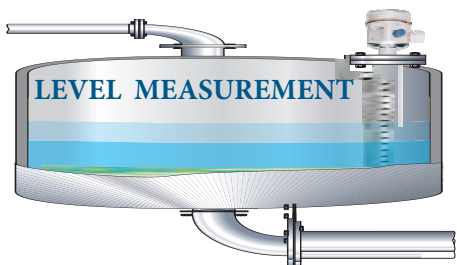
PRODUCT

LEVEL MEASUREMENT

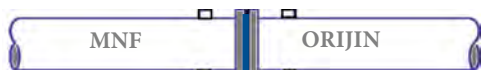
CAPACITANCE - RADIOMETRIC LEVEL MEASUREMENT

MNF

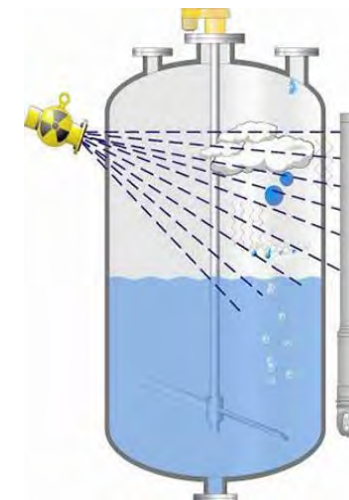
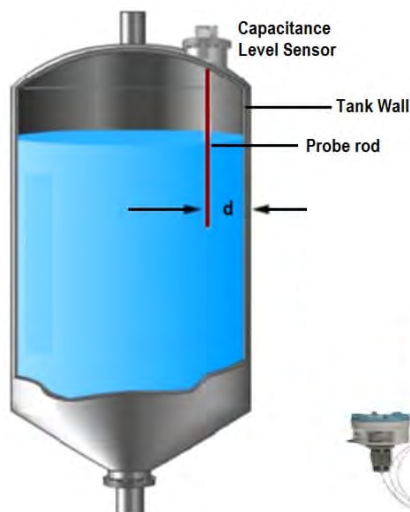
BRANDS



Capacitance level measurement
Radiometric level measurement



- | | |
|------------------|---------|
| BERTHOLD | GERMANY |
| ENDRESS & HAUSER | GERMANY |
| EMKOMETER | GERMANY |
| IGEMA GMBH | GERMANY |
| KROHNE | GERMANY |
| MOTOYAMA | JAPAN |
| OHMART | JAPAN |
| PANAMETRIC | JAPAN |
| TOKYO KEISO | JAPAN |
| VEGA | GERMANY |
| YOKOGAWA | JAPAN |



EMKOMETER



株式会社 本山製作所
MOTOYAMA ENG. WORKS, LTD.





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HYDRAULIC PNEUMATIC

INSTRUMENTS

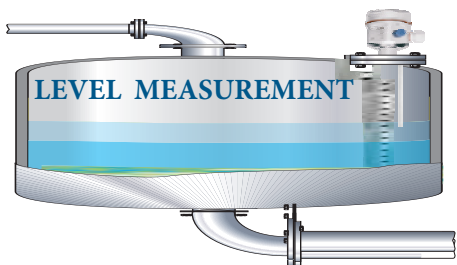
PRODUCT

LEVEL MEASUREMENT

SERVO-FLOAT LEVEL MEASUREMENT

MNF

BRANDS

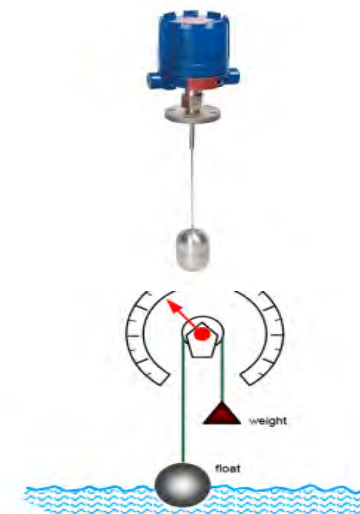


LEVEL MEASUREMENT

Float level measurement Electromechanical level measurement



ABB	GERMANY
DELTA CONTROLS	UK
EMKOMETER	CZECH
ENDRESS & HAUSER	GERMANY
KSR KUEBLER	GERMANY
HONEYWELL ENRAF	THE NETHERLANDS
JUMO	GERMANY
TOKYO KEISO	JAPAN
UWT GROUP	GERMANY
VEGA	GERMANY
WHESOE VAREC	UK





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HYDRAULIC PNEUMATIC

INSTRUMENTS

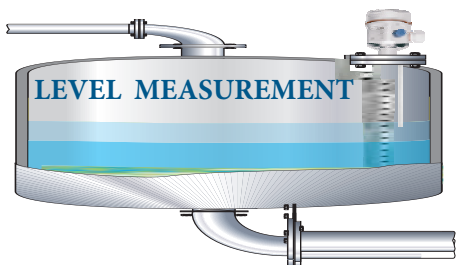
PRODUCT

LEVEL MEASUREMENT

CONDUCTIVE LEVEL MEASUREMENT

MNF

BRANDS



Conductive level measurement



- | | |
|-------------------|-------------|
| ABB | GERMANY |
| BAUMER | SWITZERLAND |
| CARLO GAVAZZI | ITALY |
| ENDRESS & HAUSER | GERMANY |
| FOXBORO | GERMANY |
| HONEYWELL | JAPAN |
| OMEGA | UK |
| PARKER | WEST EUROPE |
| PEPPERL+FUCHS | GERMANY |
| ROSEMOUNT | WEST EUROPE |
| SIEMENS | GERMANY |
| SMD FLUID CONTROL | UK |
| TARAFAG | SWITZERLAND |
| VEGA | GERMANY |



Baumer
Passion for Sensors



Foxboro
by Schneider Electric

Honeywell



ROSEMOUNT

VEGA





OVERVIEW



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HYDRAULIC PNEUMATIC

INSTRUMENTS

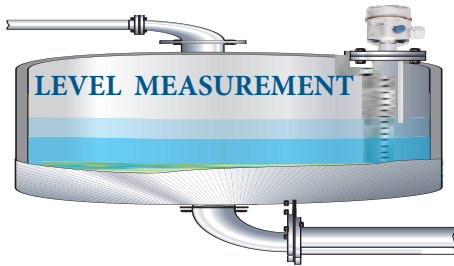
PRODUCT

LEVEL MEASUREMENT

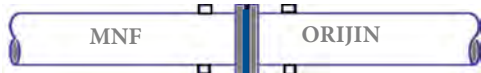
MAGNETIC LEVEL MEASUREMENT

MNF

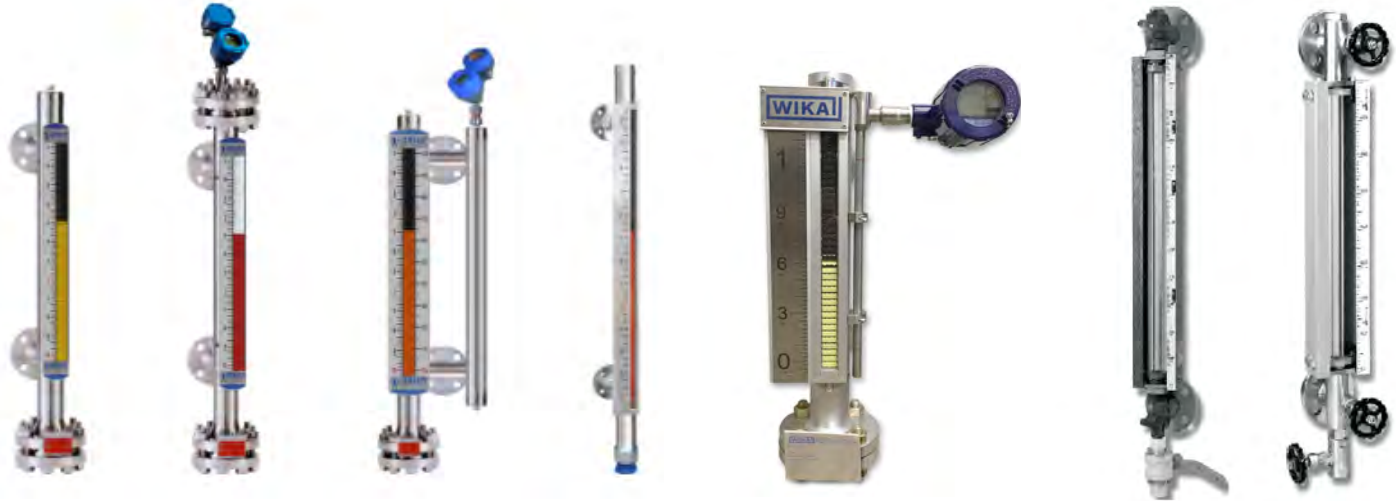
BRANDS



Magnetic level measurement
Guage glass level measurement



- | | |
|--------------------|-------------|
| BONETTI | ITALY |
| DANIEL | UK |
| E&H | GERMANY |
| INTRA AUTOMATION | GERMANY |
| KFG LEVEL AG | SWITZERLAND |
| KLINGER | UK |
| KOBOLD MESSRING | GERMANY |
| KROHNE MESSTECHNIK | GERMANY |
| MAGNETROL | JAPAN |
| PHONIX MESSTECHNIK | GERMANY |
| SAMIL INDUSTRY CO. | KOREA |
| VEGA | GERMANY |
| WIKI INSTRUMENT | GERMANY |



INTRA-AUTOMATION
MEASUREMENT AND CONTROL





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HYDRAULIC PNEUMATIC

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PRODUCT

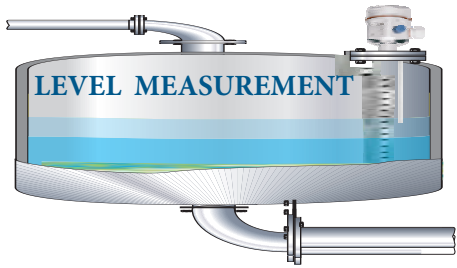
LEVEL MEASUREMENT

TANK GUAGING

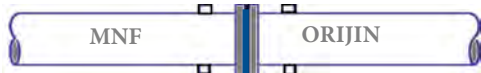
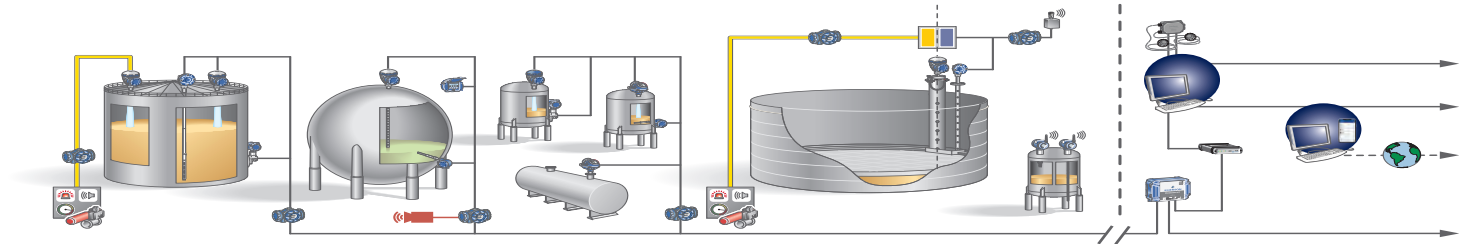
LEVEL MEASUREMENT

MNF

BRANDS



Servo level measurement
Tank guaging level measurement



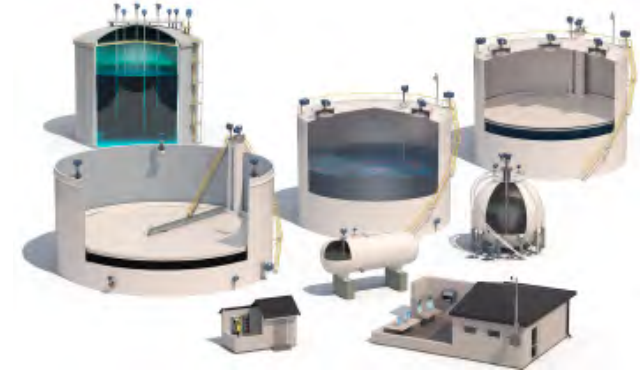
MNF	ORIJIN
EMERSON	UK
ENDRESS & HAUSER	GERMANY
ENRAF BV	NETHERLANDS
KROHNE MESSTECHNIK	GERMANY
SAAB TANK CONTROL	UK
SAKURA ENDRESS CO.	JAPAN
SHAND & JURs	FRANCE
TOKYO KEISO CO.	JAPAN
WHESSOE VAREC	UK

APPLICATIONS

- Refineries
- Petrochemical industry
- Distribution terminals
- Pipeline terminals
- Fuel depots
- Air fueling storage at airports
- Chemical storage

PURPOSES

- Oil movement and operations
- Inventory control
- Custody transfer
- Loss control and mass balance
- Volume reconciliation
- Overfill prevention
- Leak detection





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CONTROL SYSTEMS



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HYDRAULIC PNEUMATIC

INSTRUMENTS

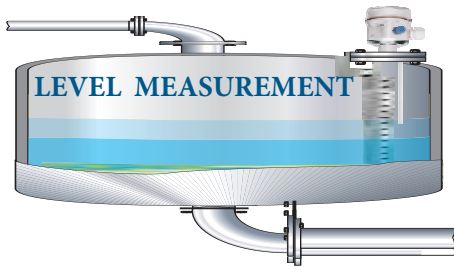
PRODUCT

LEVEL MEASUREMENT

LEVEL SWITCHES

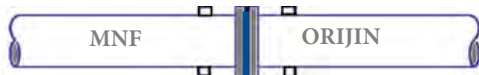
MNF

BRANDS



LEVEL SWITCHES

- FLOAT & DISPLACER
- TUNING FORK
- CAPACITANCE
- RADIOACTIVE



MNF

ORIJIN

- | | |
|----------------------|-------------|
| ANALYTIC | GERMANY |
| BERTHOLD | GERMANY |
| BESTA | SWITZERLAND |
| DELTA CONTROLS | UK |
| EMKOMETER | CZECH |
| ENDRESS & HAUSER | GERMANY |
| IGEMA GMBH | GERMANY |
| JUCKER | UK |
| KOBOLD | GERMANY |
| LABKO | FINLAND |
| MAGNETROL | USA |
| OFFICINE OROBICHE | ITALY JAPAN |
| OHMART PANAMETRICS | JAPAN |
| PHONIX MESSTECHNIK | GERMANY |
| SPRIANO TECHNOLOGIES | ITALY |
| TOKYO KEISO | JAPAN |
| VEGA | GERMANY |
| WISE CONTROL INC. | SOUTH KOREA |





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HYDRAULIC PNEUMATIC

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PRODUCT

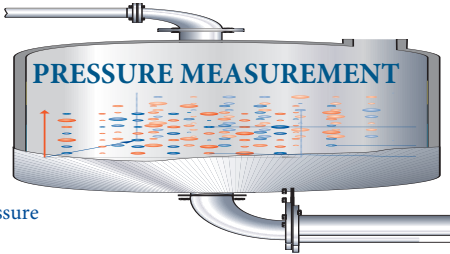
PRESSURE MEASUREMENT

ABSOLUTE GAUGE PRESSURE MEASUREMENT

MNF

BRANDS

Differential Pressure



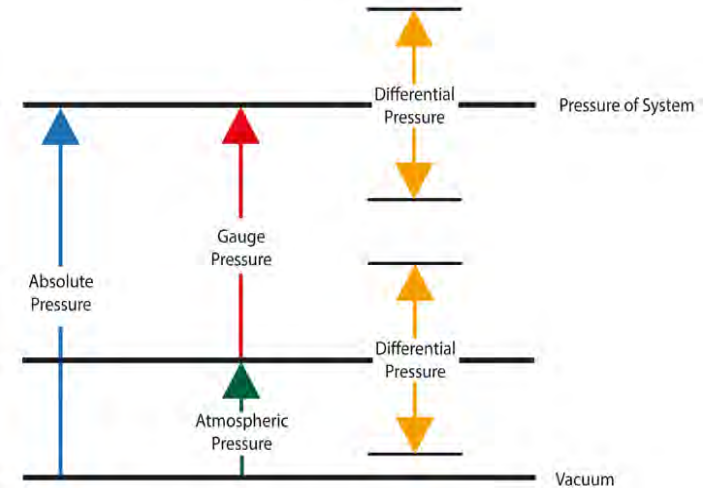
ambient Temperature

Static Pressure

Absolute & gauge Pressure measurement



- | | |
|---------------------|------------|
| AMETEK | W. EUROPE |
| ASHCROFT | GERMANY |
| BADOTHERM | NETHERLAND |
| BD SENSORS | GERMANY |
| BOURDON INSTRUMENTS | BELGIUM |
| BURKERT | GERMANY |
| FLUKE | W. EUROPE |
| OMEGA | UK |
| SKF | SWEDEN |
| SMC | JAPAN |
| SPXFLOW | W. EUROPE |
| TESTO | GERMANY |
| WIKA | GERMANY |





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HYDRAULIC PNEUMATIC

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PRODUCT

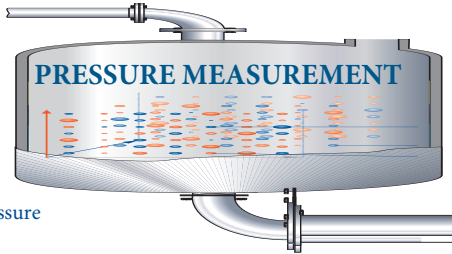
PRESSURE MEASUREMENT

DIFERENTIAL PRESSURE MEASUREMENT

MNF

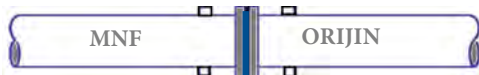
BRANDS

Differential Pressure



Static Pressure

Differential Pressure measurement



- | | |
|----------------------|-------------|
| ABB | W.EUROPE |
| ASHCROFT | GERMANY |
| AZBIL CORPORATION | JAPAN |
| DELTA CONTROLS | UK |
| EMERSON | UK / FRANCE |
| EMKOMETER | CZECH |
| ENDRESS & HAUSER | GERMANY |
| FUJI | JAPAN |
| HONEYWELL | BELGIUM |
| REGULATEURS GEORGIN | FRANCE |
| SAKURA ENDRESS | JAPAN |
| SIEMENS | GERMANY |
| SMAR | BRAZIL |
| SPRIANO TECHNOLOGIES | ITALY |
| WIKA | GERMANY |
| YOKOGAWA | JAPAN |





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HYDRAULIC PNEUMATIC

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PRODUCT

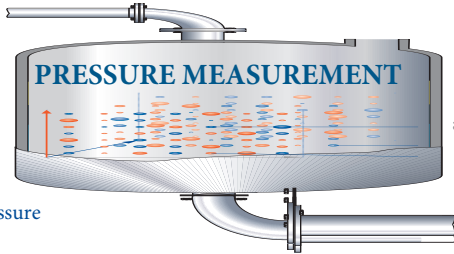
PRESSURE MEASUREMENT

PRESSURE SWITCHES

MNF

BRANDS

Differential Pressure

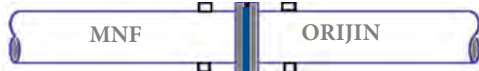


ambient Temperature

Static Pressure

Pressure switches

Pressure sensors



MNF	ORIJIN
ASHCROFT	GERMANY
BETA	THE NETHERLANDS
CELLA	GERMANY
DELTA CONTROLS	UK
HERION	GERMANY
HONEYWELL	JAPAN
NORGREN	GERMANY
REGULATEURS GEORGIN	FRANCE
SICK	GERMANY
UNITED ELECTRIC	W.EUROPE
WIEGAND	GERMANY
WIKA	GERMANY
WISE CONTROL INC.	SOUTH KOREA





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HYDRAULIC PNEUMATIC

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PRODUCT

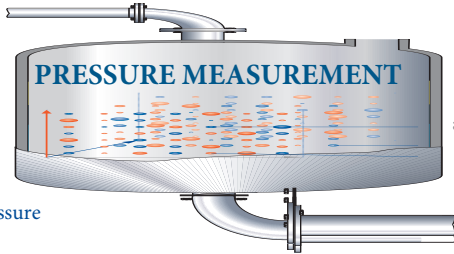
PRESSURE MEASUREMENT

PRESSURE TRANSMITTERS

MNF

BRANDS

Differential Pressure



ambient Temperature

Static Pressure

Pressure transmitters

MNF

ORIJIN

ABB	W. EUROPE
DELTA CONTROLS LTD.	UK
EMERSON	W. EUROPE
ENDRESS & HAUSER	GERMANY
FANTINELLI S.R.L.	ITALY
FOXBORO	GERMANY
FUJI ELECTRIC CO LTD.	JAPAN
HONEYWELL	JAPAN
SIEMENS	GERMANY
SPRIANO TECHNOLOGIES	ITALY
SMAR	W. EUROPE
VEGA	GERMANY
YAMATAKE	JAPAN





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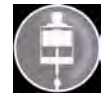
CONTROL SYSTEMS



HSEQ SYSTEMS



MOTORS



HYDRAULIC PNEUMATIC

INSTRUMENTS

PRODUCT

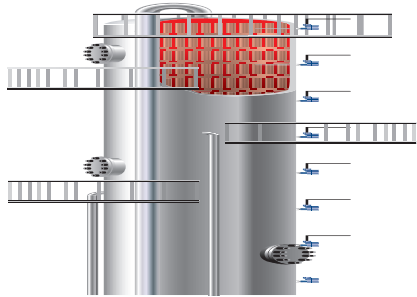
TEMPERATURE MEASUREMENT

INDUSTRIAL TEMPERATURE SENSORS

MNF

BRANDS

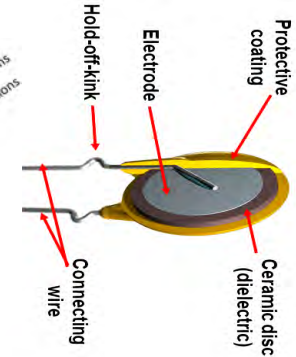
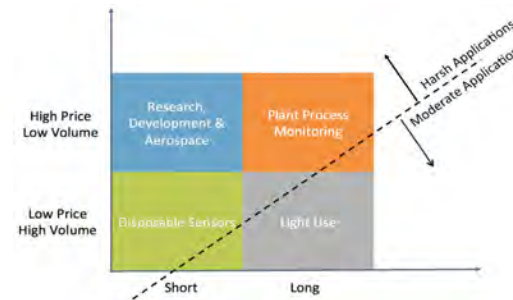
TEMPERATURE MEASUREMENT



Industrial Temperature Sensors Multipoint Temperature sensors



MNF	ORIJIN
ABB	W. EUROPE
AMETEK	W. EUROPE
ASHCROFT	GERMANY
BEAMEX	W.EUROPE
FLUKE	W.EUROPE
HONEYWELL	JAPAN
IFM	JAPAN
JUMO	JAPAN
KROHNE	GERMANY
REGULATEURS GEORGIN	FRANCE
SIEMENS	GERMANY
SIKA	GERMANY
WIKA	GERMANY



Typical Characteristics	Typical Temperature Sensor Characteristics			
	Thermistor General Purpose	Resistance Temperature Devices (RTDs)	Thermocouples (TCs)	Semiconductor Temperature Sensors
Temperature Range	- 55 C to + 125 C	- 200 C to + 850 C	- 600 C to + 2000 C	- 50 C to + 150 C
Linearity	Exponential	Fairly Linear	Fairly Linear	Best
Sensitivity	High	Low	Medium	Highest
Response Time	Fast	Slow	Fast to Slow	Slow
Excitation or Power	Needed	Needed	Not Needed	Not Needed
Long-Term Stability	Low	High	High	Medium
Self-Heating	Yes	Yes	No	Yes
Cost	Low	Low (film) High (wire wound)	Moderate to High	Low to Moderate





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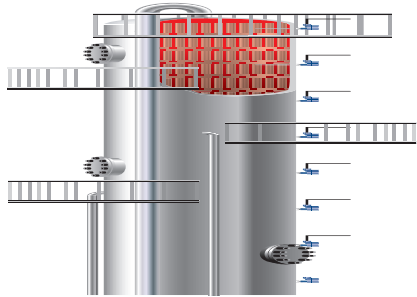
TEMPERATURE MEASUREMENT

HIGH TEMPERATURE THERMOMETERS

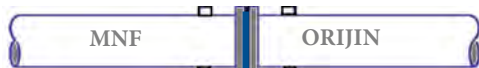
MNF

BRANDS

TEMPERATURE MEASUREMENT



High temperature thermometers
Heavy duty thermometers



MNF	ORIJIN
ABB	W. EUROPE
AMETEK	W. EUROPE
ASHCROFT	GERMANY
EMERSON	W. EUROPE
EMKOMETER	GERMANY
ENDRESS & HAUSER	GERMANY
FLUKE	W. EUROPE
FUJI	JAPAN
HONEYWELL	JAPAN
INT SRL	ITALY
REGULATEURS GEORGIN	FRANCE
SIKA	GERMANY
THERMO PROBE	W. EUROPE
WIKA	GERMANY
WISE CONTROL	SOUTH KOREA
YOKOGAWA	JAPAN





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HYDRAULIC PNEUMATIC

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PRODUCT

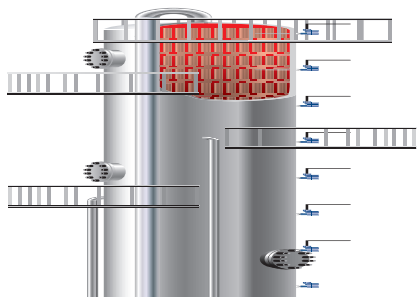
TEMPERATURE MEASUREMENT

SANITARY - COMPACT THERMOMETERS

MNF

BRANDS

TEMPERATURE MEASUREMENT



Sanitary **thermometers**
Compact **thermometers**

MNF	ORIJIN
-----	--------

AMETEK	W. EUROPE
ASHCROFT	GERMANY
DWYER	W. EUROPE
ENRESS & HAUSER	GERMANY
GEFRAN	ITALY
FLUKE	W. EUROPE
MICRO EPILSON	GERMANY
MINCO	W. EUROPE
OMEGA	GERMANY
ROTOTHERM	UK
WIKA	GERMANY
WISE	SOUTH KOREA





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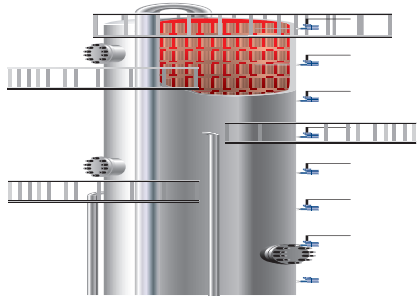
TEMPERATURE MEASUREMENT

THERMOWELLS - SURFACE THERMOMETERS

MNF

BRANDS

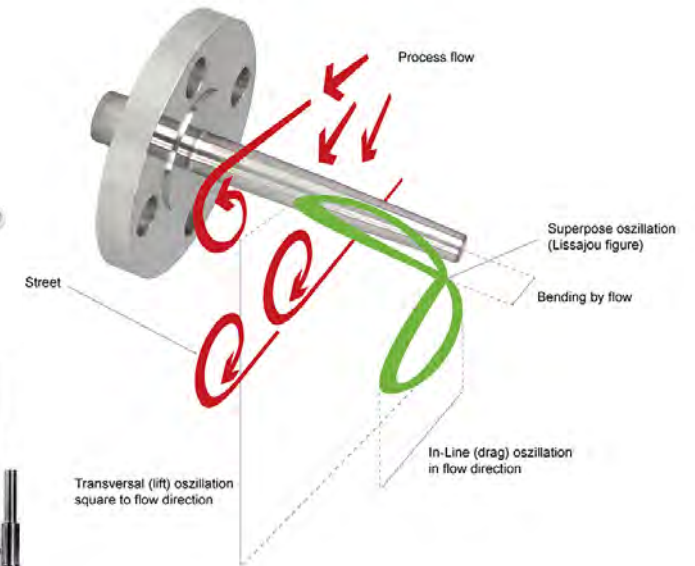
TEMPERATURE MEASUREMENT



Thermowells Surface thermometers



ABB	ITALY
AMETEK	UK
BOURDON HAENNI	FRANCE
DANFOSS	UK
E.I.P.S.A	SPAIN
FANTINELLI S.R.L	ITALY
ISA CONTROLS	UK
LABOM MESS	GERMANY
OKAZAKI	JAPAN
REGULATEURS GEORGIN	FRANCE
ROTOTHERM	UK
SOLARTRON MOBREY	UK
TRAFAG	SWITZERLAND
WIKA	GERMANY
YAMARI INDUSTRIES	JAPAN





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HYDRAULIC PNEUMATIC

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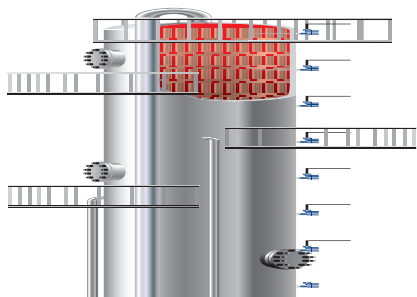
TEMPERATURE MEASUREMENT

TEMPERATURE SWITCHES - TRANSMITTERS

MNF

BRANDS

TEMPERATURE MEASUREMENT



Temperature Switches
Temperature Transmitters



MNF	ORIJIN
-----	--------

ABB	W.EUROPE
ASHCROFT	UK
AZBIL	JAPAN
CELLA	GERMANY
DELTA CONTROLS	UK
EMERSON	W. EUROPE
EMKOMETER	CZECH
ENDRESS & HAUSER	GERMANY
FOXBORO	UK JAPAN
FUJI	GERMANY
HERION	BELGIUM
HONEYWELL	FRANCE
MASONEILAN REGULATEURS	FRANCE
GEORGIN	GERMANY
SIEMENS	ITALY
SPRIANO TECHNOLOGIES	
UNITED ELECTRIC	W.EUROPE
WIKAI	GERMANY
WISE CONTROL INC.	SOUTH KOREA
YOKOGAWA	JAPAN





OVERVIEW



MECHANICAL



VALVES



INSTRUMENTS



CONTROL SYSTEMS



HSEQ SYSTEMS



MOTORS



HYDRAULIC PNEUMATIC

INSTRUMENTS

PRODUCT

SYSTEM PRODUCTS

COMPONENTS - TELECOMMUNICATION

MNF

BRANDS

SYSTEM PRODUCTS



Components Telecommunication

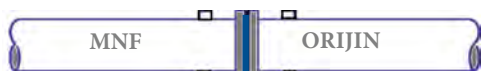
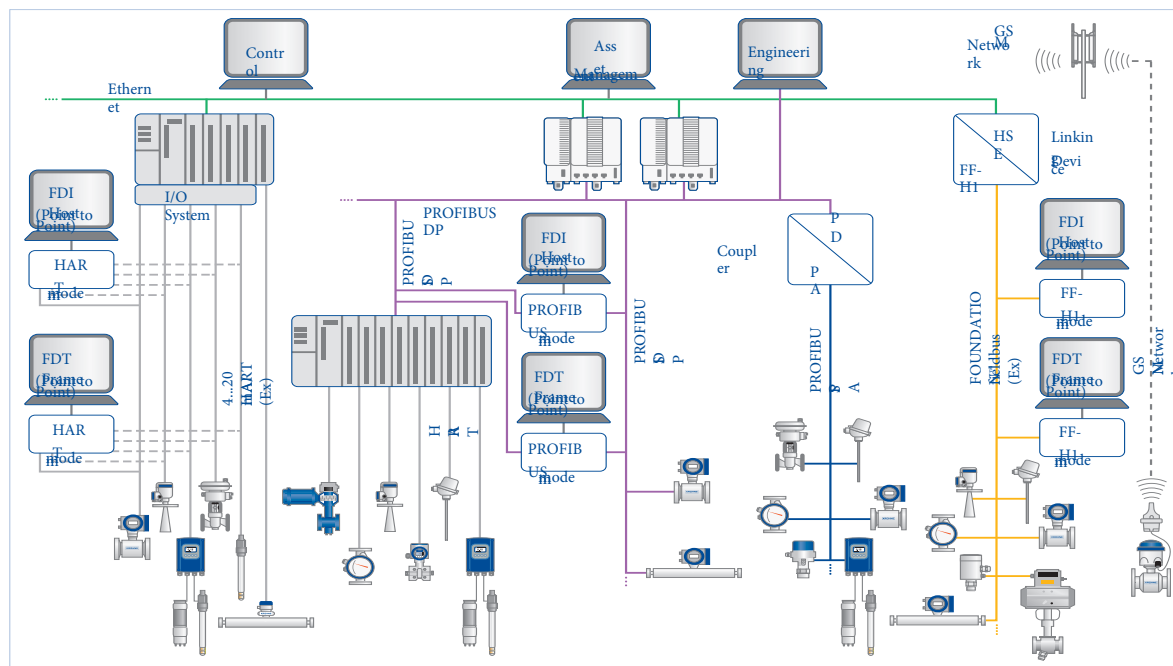


ABB	W. EUROPE
DELTA CONTROLS	UK
EMERSON	W. EUROPE
EMKOMETER	CZECH
ENDRESS & HAUSER	GERMANY
FLUIDWELL BV	NEDERLANDS
GEROEGIN	FRANCE
KROHNE	GERMANY
SIEMENS	GERMANY
SMAR	BRAZIL
VEGA	GERMANY
WIKA	GERMANY
YOKOGAWA	JAPAN





OVERVIEW



MECHANICAL



VALVES



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CONTROL SYSTEMS



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MOTORS



HYDRAULIC PNEUMATIC

INSTRUMENTS

PRODUCT

SYSTEM PRODUCTS

ASSEMBLES - ACCESSORIES

MNF

BRANDS

SYSTEM PRODUCTS



Assemblies
Accessories



MNF	ORIJIN
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DELTAFLUID	FRANCE
EISPA	SPAIN
EMERSON	UK / FRANCE
EMKOMETER	CZECH
EUROMISURE	GERMANY
INT S.R.L	ITALY
OKAZAKI	JAPAN
SAMIL INDUSTRY CO.	SOUTH KOREA
SPRIANO TECHNOLOGIES	ITALY
TERCOM	ITALY
WISE	SOUTH KOREA

