

SENSORS FOR FOOD AND BIOPHARMA.



HYGIENIC BY DESIGN

ANDERSON-NEGELE



PRODUCT OVERVIEW

ENGLISH 

FOOD

BIOPHARMA

CONTROLS

HYGIENIC BY DESIGN

ANDERSON-NEGELE.COM

SENSORS FOR FOOD AND BIOPHARMA.

H Y G I E N I C B Y D E S I G N

WELCOME TO **ANDERSON-NEGELE**

Anderson-Negele is a global company specializing in the development and production of sensors and measuring equipment for hygienic applications. As your reliable and flexible partner, we aim to always provide you with the best solution for your process.

The name Negele has been synonymous with innovative products of high quality for over 35 years. As a pioneer in hygienic measurement equipment, we have focused on the specific needs of the food, beverage and pharmaceutical industry from the very beginning. Through our innovations, we strive to give our customers the economic and technological edge that will contribute to their success. To achieve this, we look at your particular needs and develop solutions that specifically address the demands for your production processes.

As part of the FORTIVE Corporation—a global “Fortune 500” technology leader – Anderson-Negele practices the successful Fortive Business System (FBS). With the help of FBS, we ensure the high quality of our products in development and production and continuously improve our processes and methods.





HYGIENIC BY DESIGN

ANDERSON-NEGELE

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FOOD. SENSORS FOR THE FOOD AND BEVERAGE INDUSTRY.



NO CHANCE FOR CONTAMINATION

LEARN MORE:



Our company philosophy, "HYGIENIC BY DESIGN", is directed at fulfilling your requirements for sensors and measuring equipment that operate in a hygienic, clean production environment.

For Anderson-Negele, supporting a continuous process in your line means that our measurement equipment adapts to your production condition

- » through the adherence to the applicable international standards,
- » through designs that eliminate dead legs and are front-flush mounted for optimal cleanability,
- » through reliable products that withstand rough environmental conditions over long periods.

All components that come into contact with the medium are made of stainless steel 1.4404 or 1.4435 and have a roughness value of $\leq 0.8\mu\text{m}$. The surfaces can be electropolished on request.

Naturally, Anderson-Negele sensors meet FDA (Food and Drug Administration) requirements and fulfill the applicable EC directives.

The guidelines of the North American 3-A (3-A Sanitary Standards Inc.) and the EHEDG (European Hygienic Engineering & Design Group) are the measure according to which we develop all of our products.



HYGIENIC BY DESIGN

ANDERSON-NEGELE



A SPECIAL DESIGN

What "HYGIENIC BY DESIGN" specifically means can be found in the two systems that Anderson-Negele developed for the process adaptation of its sensors in your line: CLEANadapt and FLEXadapt.

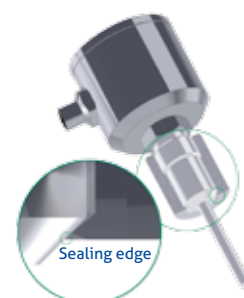
CLEANadapt

Sealing edges at the weld-in sleeves and conical sealing surfaces enable integration of our sensors in processes in a manner that is devoid of dead legs and free of elastomers. With CLEANadapt, the sensors can be hygienically installed in existing lines. Additional O-rings or sealants are not required with CLEANadapt.

FLEXadapt

Quite often the devil is in the detail. In unfavorable cases, the exchange of a sensor can result in the standstill of an entire line. A building block for minimizing downtime is FLEXadapt technology from Anderson-Negele. FLEXadapt permits the installation and removal of temperature sensors – at any time and without opening the process – for verification and recalibration. By its very design, FLEXadapt ensures that sensors from Anderson-Negele are installed in a hygienic manner.

In addition to prefabricated build-in systems, various adapters are available for welding in and retrofitting, along with the compatible temperature sensors. The risk of introducing traces of old products, foreign bodies and germs via the sensor is effectively eliminated when FLEXadapt is used.





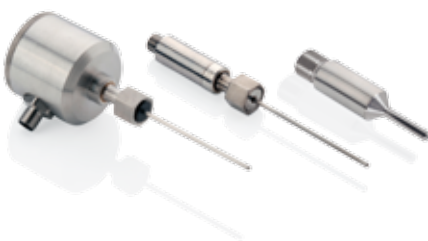
TEMPERATURE MEASUREMENT WITHOUT OPENING THE PROCESS



TFP FLEXadapt

TEMPERATURE SENSOR WITH HYGIENIC FLEXadapt BUILD-IN SYSTEM

- » Flexible thermowell system – removal of the sensor without opening the process
- » For pipes from DN 25 and vessels
- » Easy, fast installation and calibration



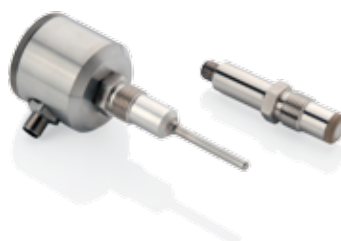
TEMPERATURE MEASUREMENT IN PIPES AND VESSELS



TFP CLEANadapt

TEMPERATURE SENSOR WITH HYGIENIC CLEANadapt BUILD-IN SYSTEM

- » M12 and G1/2" for pipes from DN15 and vessels
- » Modular adaptation design concept for all standard process connections
- » Elastomer-free, hygienic installation without dead legs



TEMPERATURE MEASUREMENT IN PIPES AND VESSELS

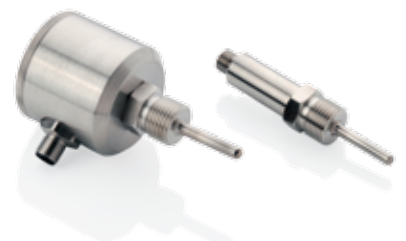


TFP Standard

TEMPERATURE SENSOR WITH STANDARD THREAD



- » Universal G1/2" standard thread
- » No product contact with the sensor when using weld-in sleeves
- » Optionally available with spring-loaded sensor tip (TFP-40G)





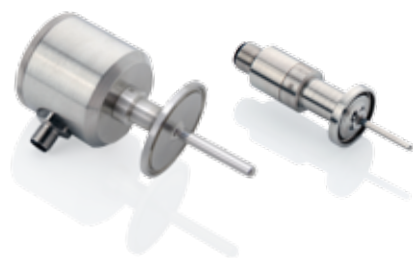
TEMPERATURE MEASUREMENT IN PIPES AND VESSELS



TFP Tri-Clamp

TEMPERATURE SENSOR WITH TRI-CLAMP CONNECTION

- » Standard Tri-Clamp connection sizes
- » Rapid response time
- » Direct connection without adapter



TEMPERATURE MEASUREMENT IN PIPES AND VESSELS



TFP without thread

TEMPERATURE SENSOR WITHOUT THREAD

- » Variable submersion depth of sensor with hygienic threaded clamp
- » No product contact of sensor with use of thermowells



DIGITAL IN-SITU TEMPERATURE DISPLAY



FH-DTG

TEMPERATURE SENSOR WITH DIGITAL DISPLAY

- » Large digital display (battery-operated)
- » Optionally available with switch output and external power supply
- » Model for temperature monitoring in autoclaves ("retort" DTG)



FOOD



LEVEL

CONTINUOUS LEVEL MEASUREMENT



HYDROSTATIC LEVEL MEASUREMENT



NSL-F

CONTINUOUS LEVEL SENSOR

- » 4-wire sensor for vessels up to 3 m
- » Insensitive to foam and adherence
- » Rapid response time, therefore ideal for control tasks (e.g. filler)
- » Also available as double rod sensor for plastic vessels



NSL-M

COMPACT, CONTINUOUS LEVEL SENSOR

- » 2-wire sensor for vessels up to 3 m
- » Compact design with minimal space requirement
- » Measurement to 140 °C medium temperature
- » Parameter adjustment via PC



LAR

CLIMATE-INDEPENDENT LEVEL SENSOR WITH HYGIENIC CLEANadapt BUILD-IN SYSTEM

- » Hermetically sealed measuring system – no drift problems due to condensation
- » Very high accuracy and long-term stability
- » Measurement to 130 °C medium temperature
- » 3-year warranty





POINT LEVEL DETECTION AND CONTROL



NVS

CONDUCTIVE POINT LEVEL SWITCH FOR PIPES AND VESSELS

- » Conductive measurement principle for conductive media
- » Multi-rod sensors with external electronics for point level detection and control
- » Electrodes can be shortened as needed



POINT LEVEL DETECTION IN PIPES AND VESSELS



NCS

CAPACITIVE POINT LEVEL SWITCH FOR PIPES AND SINGLE OR DOUBLE WALLED VESSELS

- » Capacitive measurement principle – independent of the conductivity of the medium
- » Insensitive to foam and adherence
- » Small build-in length and very good cleanability



POINT LEVEL DETECTION IN VESSELS AND OVERFILL PROTECTION



NCS-L

CAPACITIVE POINT LEVEL SWITCH FOR SINGLE OR DOUBLE WALLED VESSELS

- » Reliable alarm in pasty media
- » Rapid response time
- » Heated electronics to avoid condensation
- » Installation in vessels from above or below



FOOD



PRESSURE

PROCESS PRESSURE MEASUREMENT IN PIPES AND VESSELS



HH

COMPACT PRESSURE SENSOR

- » Robust and durable – even at process temperatures up to 150 °C
- » Rapid response time
- » Available as relative or absolute pressure transmitter



MODULAR PRESSURE PLATFORM



PF Series

MODULAR PRESSURE SENSOR FOR HIGH PROCESS TEMPERATURES

- » Useable in process temperatures up to 177 °C
- » Integrated display
- » No tools required for calibration and adjustment



DIGITAL IN-SITU PRESSURE DISPLAY



MAN-90-BAT

DIGITAL PRESSURE GAUGE

- » Large, digital display (battery-operated)
- » Automatic registration of min and max values
- » Optionally available with switch output and external power supply



**PRESSURE MONITORING
IN VESSELS**



EL

PRESSURE GAUGE WITH DIRECT ADAPTATION

- » Nominal size 90 mm
- » High quality stainless steel model
- » Numerous hygienic process connections
- » 3-A certification



**PRESSURE MONITORING
IN SEPARATORS**



MAN-63

COMPACT PRESSURE GAUGE WITH HYGIENIC CLEANadapt BUILD-IN SYSTEM

- » Nominal size 63 mm
- » High quality stainless steel model
- » Numerous hygienic process connections
- » 3-A certification



**PRESSURE MONITORING
IN HOMOGENIZERS**



ELH

PRESSURE GAUGE WITH INTEGRATED TRANSMITTER FOR HOMOGENIZERS

- » Designed for extreme process conditions and pressures up to 1000 bar
- » Very high reliability and durability
- » Optional analog output



FOOD



FLOW

FLOW MONITORING AND DRY-RUN PROTECTION



FLOW MEASUREMENT OF DEMINERALIZED WATER



FWS, FWA

ULTRASONIC FLOW SWITCH

- » For media with turbidity ≥ 1 NTU
- » Measurement not influenced by temperature and conductivity
- » Very rapid response time

FTS

CALORIMETRIC FLOW SWITCH

- » Also suitable for highly pure media
- » Sensor made completely of stainless steel
- » Integrated safety switch-off

HM

TURBINE FLOWMETER

- » Cost-efficient and reliable alternative to magnetic-inductive flowmeters
- » Hygienic design for the food and beverage industry
- » 3-A certification
- » Also usable in non-conductive media



FLOW MEASUREMENT IN FLASH PASTEURIZATION PLANTS



FMI

MAGNETIC-INDUCTIVE FLOWMETER

- » Flow and volume measurement of media with minimum conductivity $> 5 \mu\text{S/cm}$
- » High measurement accuracy and reproducibility: $\pm 0.2 \% \pm 1 \text{ mm}$
- » Also for low flow rates
- » Suitable for metering and filling applications
- » Vacuum-tight PFA coating for maximum resistance against aggressive media



LEARN MORE:



FMQ

COMPACT MAGNETIC-INDUCTIVE FLOWMETER

- » High measurement accuracy and reproducibility: $\pm 0.5 \% \pm 2 \text{ mm}$
- » Compact, stainless steel housing
- » Minimum maintenance and care





CONTROL OF CIP PROCESSES, CONCENTRATION MEASUREMENT,
PRODUCT MONITORING AND QUALITY ASSURANCE



ILM-4

INDUCTIVE CONDUCTIVITY SENSOR IN MODULAR DESIGN

- » Wear-free, inductive measurement procedure
- » Accurate measurement through compensation of temperature influences
- » Freely selectable and combinable outputs: Conductivity, temperature, concentration
- » Rapid temperature response time t_{90} approx. 15 s
- » Installation in tube diameters from DN 40
- » Sensor made entirely of stainless steel, submersible body made of PEEK
- » CIP/SIP cleaning up to 150 °C / maximum 60 minutes
- » Modular design for flexible assembly
- » Retrofittable extensions
- » Settings can be made on a PC or directly on the device
- » Calibration function: Offset and span can be adjusted by the customer
- » Compatible with predecessor models of ILM series



LEARN MORE:



QUALITY CONTROL, FILTER AND SEPARATOR MONITORING



ITM-3

TURBIDITY SENSOR
(BACKSCATTER LIGHT)

- » Front-flush mounted, hygienic sensor
- » For medium to high turbidities (e.g., milk, yeast)
- » Wear-free LED technology, color-independent measurement (wave length 860 nm)
- » Immune to reflections at small diameters
- » Smallest pipe diameter: DN 25
- » High reproducibility and rapid response time
- » Analog and switch output (freely adjustable switch point and hysteresis)
- » Four measurement ranges, of which two are externally switchable



LEARN MORE:



ITM-4

TURBIDITY SENSOR
(4-BEAM ALTERNATING LIGHT)

- » Precise measurement at low and medium turbidities
- » Contamination of the optics is compensated
- » Units switchable between NTU and EBC (11 ranges per unit)
- » Optimized version available for process and drinking water



PHARMA. SENSORS FOR THE PHARMACEUTICAL INDUSTRY AND BIOTECHNOLOGY.



PHARMA PRODUCTION. ASEPTIC BY DESIGN

LEARN MORE:



For many years, our customers in the pharmaceutical industry and in biotechnology have trusted in sensors and measurement systems from Anderson-Negele. The processes employed in production eliminate the risk of introducing foreign substances from the outset. Maintenance and repair measures must have little or no impact on the process. This is particularly true of sensors and measurement equipment integrated in the line – and relates to features such as the sensor material, surface quality, dead-leg-free design and pharmaceutical process adaptation of the products.

The quality requirements specific to the pharmaceutical industry are grouped under the term "aseptic design", which is a concept that extends beyond international sanitary regulations.

- » Installation in all common pipe standards (DIN, ISO, ASME)
- » All process-contacting parts made of stainless steel 1.4435 or 316L
- » Acceptance certificate 3.1 as per EN 10204
- » Electropolished surface with $R_a \leq 0.8 \mu\text{m}$ and $0.4 \mu\text{m}$
- » Surface inspection certificate
- » Delta-ferrite measurement report
- » Pressure certificate as per AD 2000
- » Elastomers and plastics with USP Class VI approval



HYGIENIC BY DESIGN

ANDERSON-NEGELE



PHARMA PRODUCTION. ASEPTIC BY DESIGN

Your production must operate with a high degree of efficiency – regardless of whether as an entire line or as an individual component. Anderson-Negele has developed three technologies that will let your lines run continuously during daily operations:

PHARMadapt EPA

The PHARMadapt EPA process adaptation system even adapts temperature and point level sensors to pipes with very small nominal widths. The seal with exchangeable O-rings meets the technical requirements stipulated for lines in the pharmaceutical industry.

PHARMadapt ESP

If the temperature sensors are not permitted to come into direct contact with the medium and the process should not be opened, the PHARMadapt ESP system developed by Anderson-Negele is the optimal solution for your line. Because no two lines are alike, adapters and compatible temperature sensors are available in addition to the complete build-in systems.

CPM

CPM technology from Anderson-Negele was developed specifically for the pharmaceutical process adaptation of pressure sensors and gauges for the purpose of taking measurements in pipes with small diameters. CPM technology enables a front-flush mounted, absolutely dead-leg-free measurement location.





TEMPERATURE MEASUREMENT IN ASEPTIC LINES



TFP PHARMadapt ESP



TEMPERATURE SENSOR WITH ASEPTIC PHARMadapt ESP BUILD-IN SYSTEM

- » Aseptic thermowell system – removal of the sensor without opening the process
- » Rapid response time, very compact measuring point
- » Insensitive to vibrations
- » Electropolished temperature sensor, $R_a \leq 0.8 \mu\text{m}$
 $R_a \leq 0.4 \mu\text{m}$ optional



TEMPERATURE MEASUREMENT IN VERY SMALL PIPE DIAMETERS



TFP PHARMadapt EPA



TEMPERATURE SENSOR WITH ASEPTIC PHARMadapt EPA BUILD-IN SYSTEM

- » Dead-leg-free, pharmaceutical measurement location with O-ring
- » For pipe diameters from DN 10
- » Rapid response time, very compact measurement location



TEMPERATURE MEASUREMENT IN PIPES AND VESSELS

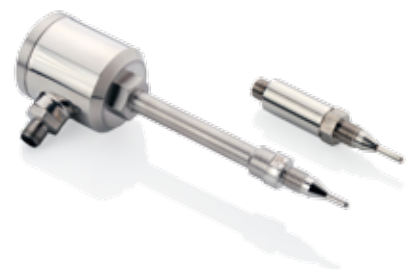


TFP CLEANadapt



TEMPERATURE SENSOR WITH HYGIENIC CLEANadapt BUILD-IN SYSTEM

- » Elastomer-free sealing concept
- » Gap-free and dead-leg-free M12 connection for pipe diameters from DN 15
- » Rapid response time
- » Electropolished temperature sensor, $R_a \leq 0.8 \mu\text{m}$
 $R_a \leq 0.4 \mu\text{m}$ optional





TEMPERATURE MEASUREMENT
IN BIOREACTORS



TFP Fermenter



TEMPERATURE SENSOR WITH
FERMENTER CONNECTOR

- » Standard process connection for building into vessels
- » Easy-to-sterilize measuring point
- » Connector length: 46 mm or 52 mm



TEMPERATURE MEASUREMENT
IN PIPES AND VESSELS

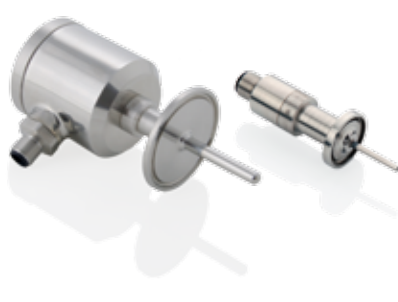


TFP Tri-Clamp



TEMPERATURE SENSOR WITH
TRI-CLAMP CONNECTION

- » Universal Tri-Clamp
- » Rapid response time
- » Electropolished temperature sensor, $R_a \leq 0.8 \mu\text{m}$
 $R_a \leq 0.4 \mu\text{m}$ optional



DIGITAL IN-SITU
TEMPERATURE DISPLAY



FJ

TEMPERATURE SENSOR WITH
DIGITAL DISPLAY

- » Large digital display (battery-operated)
- » Process connections for pharmaceutical applications
- » Materials in contact with the medium are FDA-compliant
- » Optionally available with switch output and external power supply





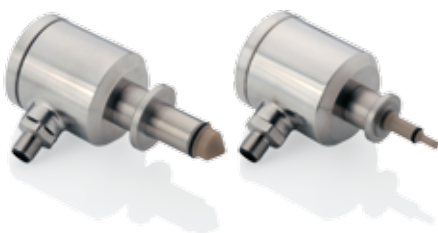
POINT LEVEL DETECTION IN VERY SMALL PIPE DIAMETERS



NCS EPA

CAPACITIVE POINT LEVEL INDICATOR WITH PHARMadapt EPA

- » Dead-leg-free measuring point with O-ring designed for the pharmaceutical industry
- » EPA process connection for pipes of DN 10 and larger
- » Capacitive measuring principle – independent of medium conductivity
- » Insensitive to foam and adherence



POINT LEVEL DETECTION IN PIPES AND VESSELS



NCS-31P Direct Connection

CAPACITIVE POINT LEVEL INDICATOR WITH DIRECT CONNECTION

- » Direct connection: Tri-Clamp, Varivent, BioControl and Ingold
- » Capacitive measuring principle – independent of medium conductivity
- » Insensitive to foam and adherence



POINT LEVEL DETECTION IN PIPES AND VESSELS

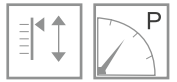


NCS-L Pharma

CAPACITIVE POINT LEVEL SENSOR FOR VESSELS

- » Reliable alarm in pasty media
- » Rapid response time
- » Heated electronics to avoid condensation
- » Installation in vessels from above or below





HYDROSTATIC LEVEL MEASUREMENT



LA "Top Mount"

LEVEL SWITCH FOR MOUNTING FROM ABOVE

- » Hermetically sealed measuring system
- » Very high accuracy and long-term stability
- » Mounting from above for easy installation



HYDROSTATIC LEVEL MEASUREMENT



SX

CLIMATE-INDEPENDENT LEVEL SENSOR

- » Hermetically sealed measuring system
- » Very high accuracy and long-term stability
- » Measurement up to 130 °C medium temperature



PRESSURE MEASUREMENT IN PIPES AND VESSELS



MPP

MODULAR PRESSURE SENSOR

- » For use at process temperatures up to 177 °C
- » Integrated display
- » No tools required for calibration and adjustment
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$





DIGITAL IN-SITU PRESSURE DISPLAY



MAN-90P-BAT

DIGITAL PRESSURE GAUGE

- » Large digital display (battery-operated)
- » Automatic registration of min and max values
- » Optionally available with switch output and external power supply
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$



PRESSURE MONITORING IN SMALL PIPE DIAMETERS



EK

COMPACT PRESSURE GAUGE

- » Nominal size 63 mm
- » Autoclavable
- » Tri-Clamp 3/4", 1" and CPM
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$



PRESSURE MONITORING IN PIPES AND VESSELS



EM

PRESSURE GAUGE

- » Nominal size 90 mm
- » Autoclavable
- » Adjustment of zero and span
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$





DEAD-LEG-FREE PRESSURE MEASUREMENT IN SMALL PIPE DIAMETERS



HA Mini CPM

COMPACT PRESSURE SENSOR WITH ASEPTIC CPM BUILD-IN SYSTEM

- » Dead-leg-free, front-flush pressure measurement with CPM process connection
- » Nominal pipe widths 1/4" to 4" (ASME)
- » High process temperature up to 150 °C
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$
- » Intrinsically safe (UL Class 1)



PRESSURE MEASUREMENT IN PIPES AND VESSELS



HA Mini Tri-Clamp

COMPACT PRESSURE SENSOR WITH TRI-CLAMP

- » Tri-Clamp 3/4", 1", 1.5"
- » Front-flush pressure measurement for pipes 3/4" to 4" (ASME)
- » High process temperature up to 150 °C
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$
- » Intrinsically safe (UL Class 1)



PRESSURE MEASUREMENT IN PIPES AND VESSELS



HA Autoclaveable

AUTOCLAVEABLE COMPACT PRESSURE SENSOR

- » Fully autoclaveable (124 °C, 1 h)
- » Up to 30 autoclave cycles without recalibration
- » High process temperature up to 150 °C
- » Electropolished surface, $R_a \leq 0.2 \mu\text{m}$
- » Intrinsically safe (UL Class 1)





FLOW MEASUREMENT IN FLASH PASTEURIZER



FLOW MEASUREMENT OF DEMINERALIZED WATER



FMI

MAGNETIC-INDUCTIVE FLOWMETER

- » High measurement accuracy and reproducibility: $\pm 0.2\% \pm 1\text{ mm}$
- » Also for low flow rates
- » Vacuum-tight, rigid meter tube lining, even at high temperature



FMQ

COMPACT MAGNETIC-INDUCTIVE FLOWMETER

- » High measurement accuracy and reproducibility: $\pm 0.5\% \pm 2\text{ mm}$
- » Compact, stainless steel housing
- » Pharmaceutical version with all necessary certificates



HMP

TURBINE FLOWMETER

- » Cost-efficient and reliable alternative to magnetic-inductive flowmeters
- » Hygienic design for the pharmaceutical industry
- » Also usable in non-conductive media



FLOW MONITORING/
DRY-RUN PROTECTION

CIP PROCESS CONTROL

QUALITY CONTROL OF PRODUCTS



FTS

CALORIMETRIC FLOW SWITCH

- » Calorimetric measuring principle with pulsed heating
- » Rapid response time
- » Sensor protection: automatic switch-off at $t > 100\text{ }^{\circ}\text{C}$



ILM-4

INDUCTIVE CONDUCTIVITY METER

- » Wear-free, inductive measuring principle
- » High reproducibility and rapid response time
- » Freely selectable and combinable outputs
- » Concentration measurement



ITM Series

TURBIDITY SENSORS

- » ITM-3: Front-flush, hygienic sensor for medium and high turbidities
- » ITM-4: Precise measurement at low and medium turbidities
- » Color-independent measurement (wave length 860 nm)



CONTROLS



CONTROLS. INDUSTRIAL ELECTRONICS.



INSTRUMENTATION AND CONTROLS.

Special applications require specialized process control technology, because precise measurement results always influence the current production process. Anderson-Negele applies its expertise in the field of sensors for the development of appropriate process control equipment. Consequently, Anderson-Negele is able to offer a broad assortment of controllers and displays.

For the evaluation of measurement values in a wide variety of line controllers and control centers, Anderson-Negele provides suitable measurement amplifiers, signal transmitters, digital indicators and alarm relays, as well as a modular I/O system for the integration of all Anderson-Negele sensors in a field bus. All simulators, calibrators and setpoint transmitters have been designed by Anderson-Negele for rapid and precise installation, simulation and calibration of sensors in your production line.



PROCESS PARAMETER CONTROL



NKS

COMPACT PROCESS CONTROLLER FOR ALL TASKS

- » Intelligent BluePort® interface
- » Various certifications (DIN 3440, cUL, GL)
- » Maintenance manager and error list



POINT LEVEL DETECTION AND CONTROL



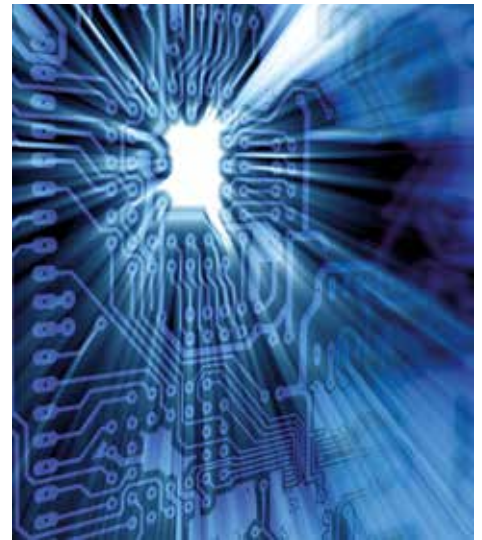
VNV, ZNV

EVALUATION ELECTRONICS FOR CONDUCTIVE POINT LEVEL INDICATORS

- » Selectable digital or relay output
- » Only one device for up to four sensors
- » Devices for different control tasks



SIGNAL CONVERSION AND PROCESSING



NCI, VTV, VMU

PROGRAMMABLE UNIVERSAL SWITCH CONVERTER

- » Conversion of standardized signals
- » Universally configurable via operating panel or BluePort® interface (NCI)
- » High sampling rates



SENSORS FOR FOOD AND BIOPHARMA.



HYGIENIC BY DESIGN

ANDERSON-NEGELE



HYGIENIC BY DESIGN

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