



level



flow



analytical



pressure



temperature



OUR HISTORY

SGM-Lektra, over 40 years in the sector of industrial and process instrumentation

Established in 1977, SGM LEKTRA produces instruments for measurement and control in industrial processes, in the integrated water cycle, and in the monitoring of temperatures for the agrifood and milling sectors.

Each instrument is designed in accordance with the normative reference principles and produced in a quality control regime. Particular attention is dedicated to the applications for the remote control and programming of our instruments.

OUR COMMITMENT

The ongoing development and research of new technologies intended to improve and expand our line of products is an integral part of our activity

The internal R&D laboratory, already listed among the laboratories recognised by the MIUR (Italian Ministry of Instruction, Universities and Research), works constantly, so that we can apply the most innovative technologies to our products. Our technicians, supported by adequate resources and collaborations with the specialised University Departments, are committed to adapting the products to the increased needs of integration and communication with the field and with the operators in the framework of industry 4.0.

GLOBAL PRESENCE

An established domestic sales network with a growing international orientation

In addition to the reinforcement of the production facility, SGM LEKTRA has reorganised the commercial network and improved, with an accurate selection, the network of critical subcontracting. The commercial sales strategies, as well as those of production and subcontracting, have been reviewed according to an increasingly greater international presence, in markets with a different kind of development, obtaining reassuring results and, particularly, a significant growth in exports. To develop this strategy, we have constituted, with a local partner, a unit located in Shanghai under the name SGM-SHA and in addition, commercial collaboration relationships have been activated in important markets in developing countries.



The future of SGM LEKTRA, of its technologies and of its products, is delineated and summarised in three words: integration, innovation and interaction.

Level Measurement and Control



ULTRASONIC



- Suitable for the measuring and control of level • system without contact with the material to be measured
- measuring range from 1.5 m to 12 m • applicable for the measuring of liquids and solids in pieces • Regardless of the electrical characteristics of the materials to be measured • up to 70°C (product) and for pressures up to 1 bar relative

RADAR



- suitable for level measuring • applicable for the measuring liquids, solids and powders • measuring range up to 70 m (radial) • max. measuring range up to 30 m (cable), 3 m (rod) • applicable for the measuring of products with $\epsilon_r > 1.2$ • up to 250°C (product) and for pressures up to 40 bar relative

CAPACITIVE



- suitable for level measuring and control • system in contact with the material to be measured • applicable to liquids, solids and powders • up to 150°C (product) and for pressures up to 25 bar
- measuring electrodes with rod or cable

HYDROSTATIC HEAD



- suitable for the level measuring of “clean” liquids and waste water • system in contact, immersed in the fluid to be measured
- max. measuring range 200 m H₂O

RESISTIVE



- suitable for on-off control • system in contact with the material to be measured • single and multi-electrode (max. 5 rods/cables) • applicable to electrically conductive liquids • applicable to level alarms and pump control • up to 180°C (product) and for pressures up to 25 bar

DIAPASON



- suitable for on-off control • system in contact with the material to be measured • compact version, rigid and semi-rigid extension • versions for powders / granules and versions for liquids • up to 150°C (product) and for pressures up to 25 bar

ELETTROMAGNETICS



- suitable for the measuring of conductive liquids in pressure piping • internal coating of the sensor tube in neoprene rubber or PTFE • excellent level of precision and repeatability • versions for use in the food and pharmaceutical sectors • datalogger via USB pen drive • MID certification • setting and visualization of the principal data via Android app

ULTRASONIC | TRANSIT TIME



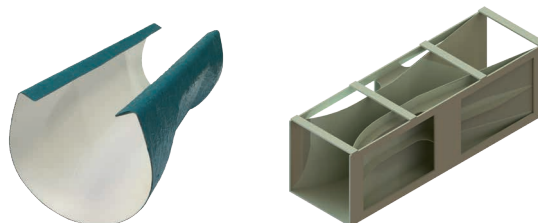
- specific for conducting capacity measuring in piping with clean liquids • non-intrusive installation by means of clamp-on sensors • datalogger • calorie count function • available in battery and external power supply versions

ULTRASONIC | OPEN CHANNEL



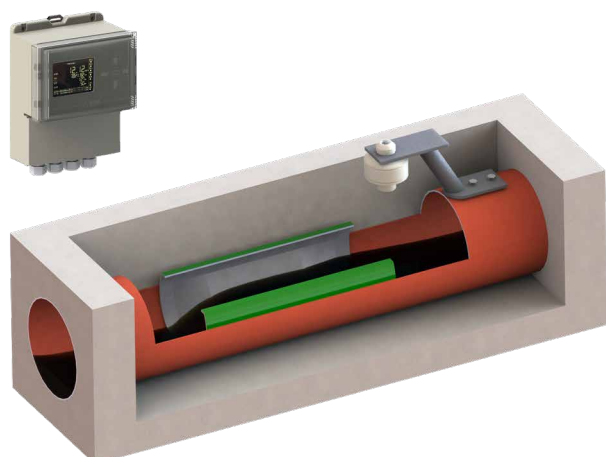
- suitable for the measuring of capacities either in open channels or in piping without pressure • programmable for any kind of hydraulic jump • system without contact with the fluid • an advantage in terms of maintenance

HYDRAULIC MODELLERS



- suitable for applications in open channels (BS) and installation in partially full pipes (PB) • widely used for capacity monitoring in “dirty waters” thanks to its intrinsic self-cleaning effect

Application Examples - Flow Measurement in Pipes and Open Channels



MCA800



unit adapted for analyses in waste water plants. MCA800 can be connected to sensors for the measuring of pH, Redox, turbidity, solids in suspension, conductivity, dissolved oxygen. Directly connection up to 2 sensors

104C - pH



The 104C sensor is suitable for measuring pH in many applications. The porous septum in Teflon® resists to incrustations and chemical attacks.

114C - conductivity



Used for measuring conductivity in pure and process waters. Conductive measuring method with two electrodes, reliable thanks to the use of graphite electrodes with temperature compensation

114CH - high conductivity



used for measuring high conductivity in pure and process waters. Reliable two-electrode conductive measurement method thanks to the use of temperature-compensated graphite electrodes.

164CH - high turbidity



suitable for the measuring of turbidity in pure and drinking water, primary water, industrial and recirculation water. The measurement is performed using 90° light scattering, according to the ISO 7027 / EN 27027 standard.

164CL - low turbidity



designed for the measuring of turbidity in pure and drinking water, primary water, industrial and recirculation water. The measurement is performed using 90° light scattering, according to the ISO 7027 / EN 27027 standard

164CU - solids in suspension



The 164CU sensor, connected to the MCA800 unit, is used for the optical measuring of solids in suspension in industrial and process waters up to 30 g/l. The probe uses the method of light absorption measuring.

324C - dissolved oxygen



The 324C sensor is used for the optical measuring of oxygen in pure and process water. The measuring principle is based on the dynamic abatement of luminescence by the molecular oxygen

604C - redox



suitable for measuring ORP in several applications. The porous septum in Teflon® is resistant to incrustations and chemical attack.

KPT



- miniature pressure transmitter, suitable for the continuous level measuring of liquids.
- measuring accuracy $\pm 0.25\%$.
- threaded and sanitary DIN / clamp fittings.

CPT



- pressure transmitter $4\div 20\text{mA}$ with 2 wires
- capacitive sensor with ceramic membrane
- accuracy: 0.2% FS
- LCD display
- compact transmitter, can be installed in any position

SPT



- level transmitters $4\div 20\text{mA}$ with 2 wires
- pressures measured: Negative, Absolute
- max. accuracy $\pm 0.075\%$ FS
- for applications under severe conditions
- for overload up to 500 bar (50MPa)
- HART protocol
- ATEX

SDT



- differential pressure transmitter $4\div 20\text{mA}$ with 2 wires
- measuring range from $0\div 1\text{mbar}$ ($0\div 100\text{Pa}$) to $0\div 20\text{bar}$ ($0\div 2\text{MPa}$)
- max. accuracy $\pm 0.075\%$ FS
- HART protocol
- P. overload up to 400bar (40MPa)
- ATEX

Monitoring Systems for Stored Cereals

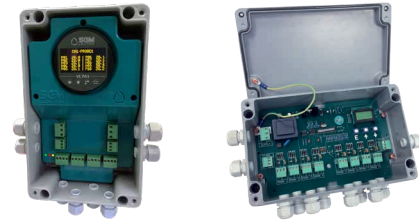


DIGITAL MULTIPOINT TEMPERATURE PROBES



- multipoint probes with sheath in AISI304 • suitable for the detection of temperature inside silos or warehouses for the storage of raw materials (cereals and derived products) • system in contact with the material to be measured • ATEX certification

CONCENTRATORS FOR TT|TM PROBES



- Multiplexer concentrators suitable for the management and control of 1 to 32 digital thermometric probes, single or multipoint • on board setting and visualization via display and keyboard or by means of the Agritherm50 software or AgrithermT60 unit

HUMIDITY PROBES



- Suitable for use in the presence of dust • IP66 housing protection • 2 4÷20mA outputs • Atex certification

RADAR LEVEL PROBES



- Measurement range 70 m • Radar pulses at 26 GHz (K-band) • Visualization on the alphanumeric display of the level measurement and the echo signal curve • ATEX certification

DISPLAY



- temperature visualization unit specific for small size plants • 4.5" touch screen display panel • temperature visualization in automatic or manual sequence

SOFTWARE AND MONITORING UNITS



- software specifically designed for the complete monitoring of environmental parameters in storage plants • continuous detection of all reading points • specific for connection with MUXM / TM - MUX / TT



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