

NEWS FROM OUR COMPANY

Dinel, s.r.o., brings you another overview of news in this form. If you are interested in a product - use the QR codes linking to our website www.dinel.cz, where you can find detailed information about each product or you can send us directly even a non-binding inquiry. The list of planned fairs for the year 2024 can be found at the end of this NEWS. Take the opportunity to visit our stand in person and see all our news live and let's talk about everything that interests you.

OUR FIRST NON-CONTACT RADAR LEVEL METER



WHAT PRODUCTS CAN BE FOUND AT IN THIS NEWS

RADAR LEVEL METER
New ARLM-70 „AMANDA“

PRESSURE SENSOR
PPM-35

CONTINUOUS LEVEL METERS
DLM-35-25 and DLM-35-52

RADAR LEVEL METER
GRLM-70 „MIRANDA“
with new functions

LIMIT LEVEL SENSORS
High frequency level sensors
RFLS-28 / RFLS-35
with diagnostics

**EVALUATION
AND POWER SUPPLY UNITS**
DSU-1222-A, SSU-1212-D,
SSU-1212-AD and TDU-1222

OUR NEWS...

RADAR LEVEL METER ARLM-70 „AMANDA“

The first Czech non-contact radar level meter ARLM-70 „Amanda“. It operates on the FMCW (frequency modulated continuous wave) principle with a frequency of 25 GHz (K-band), which allows accurate and reliable measurement of liquid and paste substances in the range from 0.3 to 20 m. Its antenna is equipped with a compact plastic housing that effectively protects against the ingress and deposition of dirt, vapours and other substances, which not only prolongs the life of the equipment but also reduces the risk of malfunctions. Compared to competing products, it stands out thanks to its innovative low-power electronics with adaptive transmit power control and the elimination of any number of obstructions. It offers simple electrical connection via a two-wire 4-20 mA current loop and a high level of user comfort - the ability to manually adjust via push buttons or remotely via HART communication. Like other products in the X-70 series, it allows users the unique option of selecting the type of display.

For outdoor environments with sunshine, an LCD display is the preferred choice, while an OLED option is preferable for areas with low light.

- Non-contact measurement
- The method is resistant to changes in the atmosphere (pressure, temperature, dust and steam)
- Possibility of measurement in vacuum and in aggressive vapours
- Measurement is independent of the medium parameters



compact covered antenna

PRESSURE SENSOR PPM-35

This is a universal electronic pressure meter. It is a compact sensor containing a stainless steel strain meter sensor and evaluation electronics in an all stainless steel housing. It is designed to measure both gaseous and liquid substances in all industries. A wide range of different process connections, threaded and threadless, are available for both relative and absolute pressure measurements. Versions for higher media temperatures up to 200 °C are also available. A choice of electrical connections is also possible, e.g. valve ISO connector, M12 connector or hardwired cable, and the current (4 - 20 mA) or voltage (0 - 10 V) output. The measuring range of the sensor is from -1 to 100 bar and the basic accuracy is 0,5 % of the range.

- Pressure measurement of gaseous or liquid substances
- Easy assembly, wide range of process connections
- Stainless steel housing and diaphragm material
- Very good long-term stability
- Basic accuracy 0,5 % of range
- Measuring range -1 ... 100 bar
- Electrical connection via hard cable, M12 connector or ISO connector



CAPACITIVE LEVEL SENSORS DLM/S-35-25

Rod capacitive level sensor for liquid level measurement.

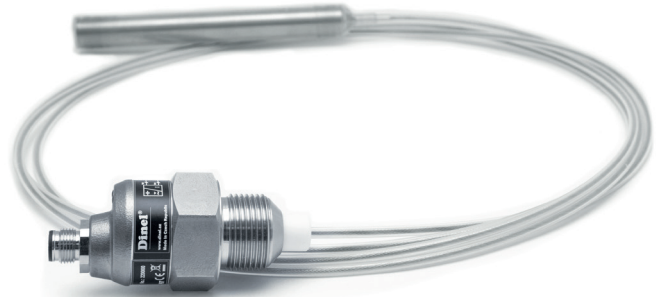
- This variant is particularly suitable for high temperature applications in combination with water (hot water, steam)
- Higher pressure resistance at high temperatures compared to other level meter variants
- Increased resistance to vapour and gas diffusion
- Also suitable for aggressive liquids



CAPACITIVE LEVEL SENSORS DLM/S-35-52

New rope capacitive level sensor for liquid level measurement.

- Variant suitable for electrically conductive liquids with a maximum electrode length of up to 10 m
- Also suitable for aggressive liquids
- Insulated rope electrode, FEP material, insulated weight



GUIDED WAVE RADAR LEVEL METER GRLM-70 „MIRANDA“

GRLM-70 is our flagship guided wave radar level meter, but it has received several innovations and new designs that are definitely worth mentioning:

- Measuring the interface of two different media and measuring the thickness of the upper media layer
- Adaptive Teaching to counter false reflections under changing conditions



HIGH-FREQUENCY LEVEL SENSOR RFLS-28 WITH DIAGNOSTICS

High frequency limit level sensor with elimination of deposits and foam on the electrode. These types of sensors RFLS-28_--_--PD- / RFLS-35_--_--PD- have built-in diagnostics in their firmware that can be used to monitor the internal integrity of the sensors. An evaluation unit is used to evaluate the diagnostic modes SSU-1212-D (AD).

- NEW FG and FN variants with front thread
- RG, RN - Installation with pipe extension in tanks, vessels or sumps
- Resistant to adhesion of viscous and adhering media (ketchups, yoghurts, spreads, syrups, creams, pastes, cleaning agents, etc.)



POWER SUPPLY AND SWITCHING UNITS

Expansion of our existing range of evaluation and power supply units, by adding units DSU-1222-A, SSU-1212-D, SSU-1212-AD a TDU-1222. Other units that were already on offer remained functionally the same, but received completely new electronics.

DSU-1222-A

dual channel power supply and evaluation unit for flexi watch sensors. Allows remote parameterization of sensor connections. Includes LC (level control) function

SSU-1212-D

single-channel unit designed for sensors with diagnostic function (RFLS-35, RFLS-28). The diagnostic function monitors the correct function and settings of the connected sensor. Use for safety applications

SSU-1212-AD

single-channel unit designed for sensors with diagnostic function (RFLS-35, RFLS-28). The diagnostic function monitors the correct function and settings of the connected sensor. Extended with a remote parametrization function. Use for safety applications

TDU-1222

timing unit for level control using one limit sensor. Supplemented by the possibility of connecting an emergency sensor

WHERE YOU CAN VISIT US

13 - 17 May 2024

IFAT 2024

World's Leading Trade Fair for Water, Sewage, Waste and Raw Materials
München, Germany
Hall C1, stand No. 108

18 - 20 March 2025

AMPER 2025

31st International Trade Fair Of Electrotechnics, Energetics, Automation, Communication, Lighting and Security Technologies
Brno, Czech Republic

April 2025

HANOVER MESSE 2025

Industrial technology trade fair
Hanover, Germany

20 - 22 May 2025

VODOVODY - KANALIZACE 2025

23rd International Water Management Exhibition
Prague, Czech Republic

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WE ALSO HAVE A PRODUCT CATALOGUE ONLINE



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