

# Level Transmitters

## Microwave Type Level Transmitter

### MODEL:VEGAPULS SERIES



### INTRODUCTION

Radar is a sophisticated level measuring principle.

VEGA's new design of small, compact and price favourable radar sensors VEGAPULS are in its function as loop powered sensors a sensation in radar level measuring technology.

First, radar sensor in two-wire technology supply voltage and output signal(4~20mA analog or digital);connectable with max. 15 sensors on a two-core line.

VEGAPULS radar sensors offer benefits which meet the technicians requirements:Pressure and temperature independent, Ex-approved, small housing dimensions and process connections(1 1/2" or DN 50);integrated analog and digital display;convenient connection form to all BUS systems.

Radar technology can also be realized in low budget applications. The sensors are very informative and can be operated optionally with check card-sized and detachable adjustment module, HART® handheld or self explanatory operating program on PC, hence the operation at any place e.g. signal line, directly on the sensor, switch cabinet or DCS is possible.

### APPLICATION

VEGAPULS radar sensors are made of resistant materials. Unaffected by pressure, temperature, density and gas composition, they are not subjected to an aging process.

Communicative and adaptable they speak many languages and are hence used in many systems and industries.

- Waste water, disposal
- Recycling
- Chemicals
- Pharmaceutical industry
- Foodstuffs
- Metal treatment and generation
- Automobile industry
- Power generation and transport
- Process technology
- Mining
- Shipbuilding
- Offshore

### FEATURES

- Small housing and small process connection
- Low cost with VEGA high quality
- Two-wire technology loop powered
- Accurate and rugged design
- Adjustment choice

### MODEL:VEGA FLEX SERIES



### SPECIFICATION

High frequency microwave pulses are coupled on a cable or rod and guided along the probe. The pulses are reflected by the product surface and received by the processing electronics. A microcomputer identifies these level echoes which are measured, evaluated and converted into level information by using the ECHOFOX software.

Thanks to this measuring principle, the adjustment with medium in no longer necessary. The sensors are preset to the ordered probe length.

The cable and rod versions(can be shortened) can be adapted in an ideal way to the individual conditions on site.

### APPLICATION

- Liquids and solids
- Measuring range : cable up to 32m
- Process temperature : -40~150°C (Max.-100~400°C)
- Process pressure : -1~40bar (Max.-1~160bar)

### Standard model and specification

	PULS 61	PULS 62	PULS 63	PULS 65	PULS 66	PULS 68
Application	aggressive liquids in small vessels under easy process conditions	storage and process vessels under arduous process conditions	aggressive liquids under arduous process conditions	aggressive liquids under easy process conditions	storage and process vessels under arduous process conditions	large solid vessels under arduous process conditions
Measuring range	up to 35m	up to 35m	up to 35m	up to 35m	up to 35m	up to 75m
Process temperature	-40..80°C	-200..450°C	-200..200°C	-40..150°C	-60..400°C	-200..450°C
Process pressure	-1..3bar	-1..160bar	-1..16bar	-1..16bar	-1..160bar	-1..160bar
Accuracy	±2mm	±2mm	±2mm	±8mm	±8mm	±2mm