EMIS
flowmeters manufacturer

EMIS-VIHR (VORTEX) 200

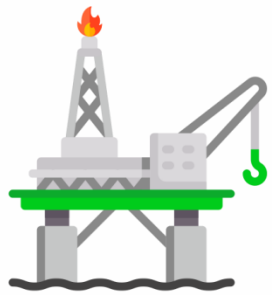
Liquid, steam and gas measurement under high temperature and pressure conditions including mediums with mechanical contaminations and other impurities.

VORTEX

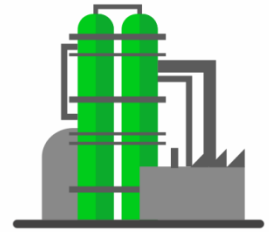
FLOWMETER

EMIS-VIHR (VORTEX) 200 APPLICATION

EMIS flowmeters manufacturer

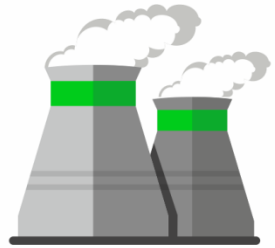


UPSTREAM OIL AND GAS INDUSTRY

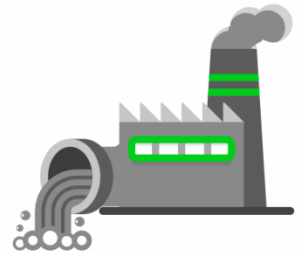


OIL REFINING INDUSTRY

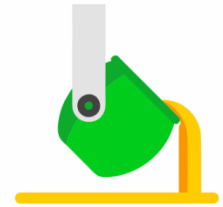
CHEMICAL INDUSTRY



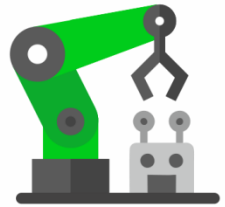
HEAT POWER ENGINEERING



MANUFACTURING PLANTS

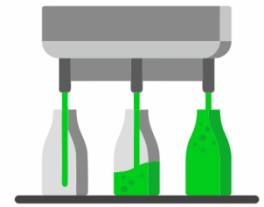


METALLURGICAL PLANTS



MECHANICAL ENGINEERING

BUILDING MATERIALS MANUFACTURING



FOOD INDUSTRY

VORTEX FLOWMETERS SERIES

EMIS flowmeters manufacturer

EMIS-VIHR (VORTEX) 200

standard type
sandwich / flange

HART COMMUNICATION PROTOCOL

Safety integrity Level SIL

FDT GROUP

EMIS-VIHR (VORTEX) 205

Insertion type vortex flowmeter

EMIS-VIHR (VORTEX) 200 PPD

High-pressure type vortex flowmeter

EMIS-VIHR (VORTEX) 200

High-temperature type vortex flowmeter

EMIS-VIHR (VORTEX) 200

Mine degree explosion proof vortex flowmeter

EMIS-VIHR (VORTEX) 200

Remote type

EMIS-VIHR (VORTEX) 200 APPLICAION (EV 200)

EMIS-VIHR (VORTEX) 200 is applicable for:

Commercial and industrial metering of:

- associated gas;
- saturated and overheated steam;
- natural gas;
- compressed air;
- oxygen, hydrogen and other industrial gases

EV 200 is intended to measure water volume and volume flow of:

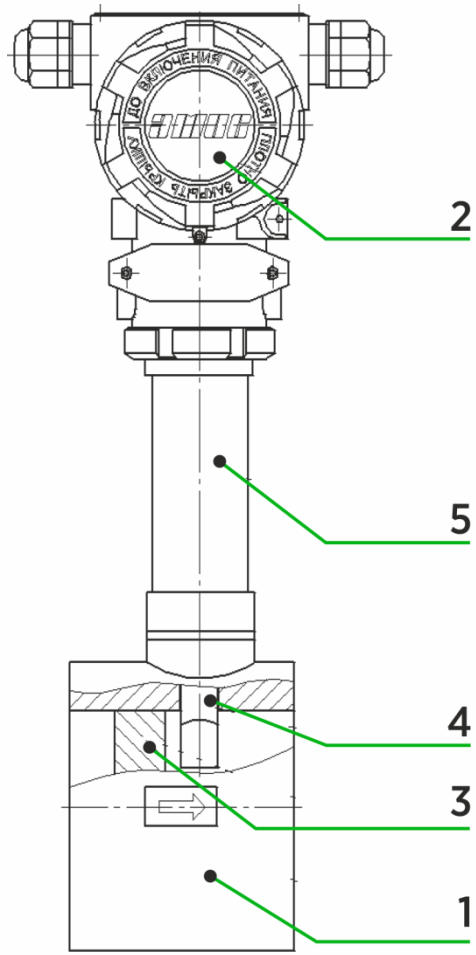
- water solution and liquids;
- polluted liquids;
- different liquid compositions

EMIS-VIHR (VORTEX) 200 is applicable for:

- production sector;
- communal service.

If density is set manually through the optic-kuob display or estimated as a constant through the program «EMIS-Integrator» it is possible to measure mass flow with the same accuracy at well at a volume rate.

EMIS-VIHR (VORTEX) 200 STRUCTURE



EMIS-VORTEX 200 structure:

flow tube – 1

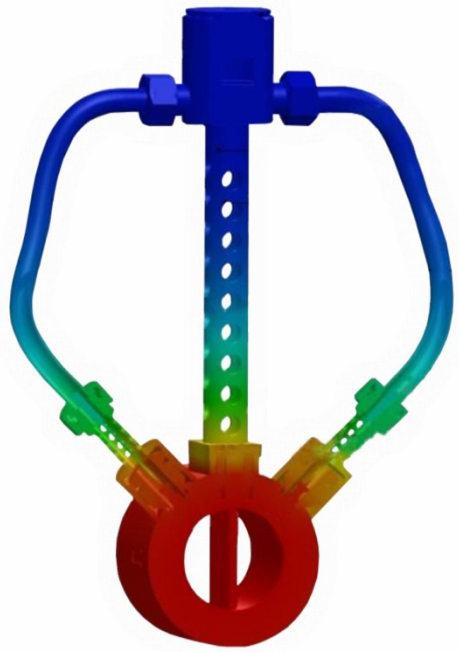
transmitter – 2

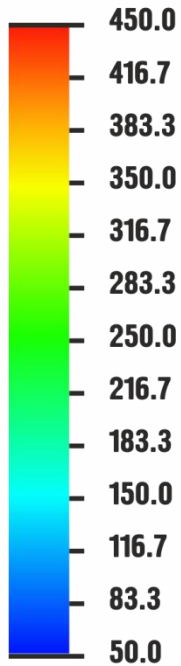
bluff body – 3

sensor - 4

rack – 5

EMIS-VIHR (VORTEX) 200 HIGH TEMPERATURE APPLIANCE





HIGH-TEMPERATURE APPLIANCE EMIS-VIHR 200 IS INTENDED FOR VOLUME AND VOLUME FLOW MEASUREMENT OF:

- overheated steam;
- water solution and liquids;
- gases.

IT CAN BE APPLIED FOR DIFFERENT INDUSTRIES AND COMMERCIAL CHARGE AS A PART OF GAS AND STEAM COMPLEXES.

MAXIMUM PROCESS MEDIUM TEMPERATURE

EMIS-VIHR (VORTEX) 200

SPECIFICATIONS

Process fluid	liquids/gas/steam
Pipeline DN, mm	15...300
Process pressure, MPa	25
Process medium temperature, °C	-60...+450
Ambient temperature, °C	-60...+70
Accuracy (gas/steam), %	±0,5/±1,0
Output signals	analog 4-20 mA + HART Digital Modbus RTU RS485 / USB, frequency / pulse
Explosion protection	1ExibIIB(T1-T6)X, 1ExdIIC(T1-T6)X, PB ExdI X, PB ExdibI X
Enclosure protection of enclosure (IP)	IP 67
Verification interval, years	4

EMIS-VIHR (VORTEX) 200

FEATURES & ADVANTAGES

- High metrological stability of measurement;
- Accuracy 1% if gas content within 5%, applicable even gas content in medium is up to 10% with measurement accuracy 5%;
- «Immitation» type accuracy proof procedure;
- Digital signal raise;
- Wireless data transmitting, distance adjusting and testing by means of RS-485 Modbus RTU and through USB;
- Controller function;
- «EMIS-integrator» software;
- High temperature version (temperature of medium up to +450°C);
- Accuracy up to 1%. Through the whole band for the gases;
- Accuracy up to 0,7% to the gases through the metrological band;
- Validated algorithms for mass flow measuring of steam, standard terms of measuring natural and following oil gas if pressure and temperature transmitters connected to the electronic block.

THANK YOU FOR ATTENTION!

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