KROHNE

OPTIFLUX Electromagnetic Flowmeter
Application Information Sheet

Company name: _____ Contact name: _____

Address: _____ Phone number: _____

City, State, Zip: _____ Email address: _____

General Information

Equipment tag # _____

Piping information, Pipe size: _____ Schedule: _____ Material: _____

Meter orientation, ☐ Horizontal ☐ Vertical ☐ Inclined Full pipe? ☐ yes ☐ No

Agency approvals, ☐ Without ☐ FM Class 1, Div 2 ☐ _____

☐ FDA approval ☐ NSF drinking water ☐ _____

Process conditions

Fluid name, _____

Flow conditions, ☐ Continous service ☐ Batching service describe: _____

Flow rate, Normal _____ Minimum _____ Maximum _____ units: _____

System pressure, Normal _____ Minimum _____ Maximum _____ ☐ psig ☐ barg

Fluid temperature, Normal _____ Minimum _____ Maximum _____ ☐ °F ☐ °C

Fluid properties, Density _____ Sp. gravity _____ Viscosity _____ Conductivity _____ µMhos

Any solids present? ☐ No ☐ Yes describe: _____

Is fluid abrasive? ☐ No ☐ Yes describe: _____

Entrained air present? ☐ No ☐ Yes describe: _____

Signal converter/ transmitter

Converter type, ☐ Integral-mounted ☐ Field-mounted ☐ Wall-mounted remote signal cable length: _____

Converter housing, ☐ Die-cast aluminum ☐ Stainless steel ☐ Polycarbonate ☐ _____

Power supply, ☐ 12-24 VDC ☐ 100-230 VAC ☐ Battery powered

IO communications, ☐ HART ☐ RS485 Modbus ☐ Profibus PA ☐ Profibus DP ☐ Foundation Fieldbus

Base IO module: _____

1st. IO module: _____

2nd IO module: _____

Reference method, ☐ Standard method ☐ Virtual reference method *(grounding rings not required)*

Flow sensor

Liner material, ☐ PFA ☐ PTFE (Teflon) ☐ ETFE (Tefzel) ☐ Polyurethane ☐ Polypropylene ☐ Ceramic
☐ Hard rubber ☐ Rilsan

Electrodes, ☐ Hastelloy C22 ☐ Stainless steel ☐ Platinum ☐ Titanium ☐ Tantalum ☐ Cerment

Grounding rings, ☐ Without ☐ 316 Ti SST ☐ Hastelloy ☐ Titanium ☐ Tantalum

Sensor housing, ☐ Carbon steel ☐ 316L SST ☐ 304 SST

Flange material, ☐ Carbon steel ☐ 316L SST ☐ 304 SST ☐ 316Ti SST

Process connections, Size: _____ ☐ ASME 150# ☐ ASME 300# ☐ ASME 600# ☐ ASME 900# ☐ ASME 1500#

☐ Raised face ☐ Wafer-style ☐ NPT ☐ AWWA ☐ _____

Documentation (QA/QC)

- [x] KROHNE standard (IOM + calibration certificate)
- [ ] Certificate of compliance
- [ ] General arrangement drawing
- [ ] Construction drawing (GA) for approval
- [ ] Material certificates
- [ ] Positive material identification (PMI)
- [ ] Test report including pressure test
- [ ] Radiographic examination (RT)
- [ ] Liquid (dye) penetrant examination (PT)
- [ ] Welding book (WPQ, WPS & PQR)
- [ ] Inspection certificate
- [ ] Inspection & test plan
- [ ] Detailed production planning

Notes/ comments: _____

KROHNE Electromagnetic Flowmeters

OPTIFLUX 1000
The economical Solution

OPTIFLUX 2000
Water and wastewater meter

OPTIFLUX 4000
Solution for the process industry

OPTIFLUX 6000
Food and pharmaceutical

OPTIFLUX 5000/7000
Ceramic liner with
non-wetted electrodes

Excellent chemical resistance

TIDALFLUX
For partially filled pipelines

WATERFLUX
Battery-powered water meter

Signal converter/ transmitter types

- Integral/compact-mounted
- Field-mounted
- Wall-mounted
- Rack-mounted

Communications protocol

- HART
- Foundation Fieldbus
- RS485 Modbus
- Profibus PA or DP

Out-of-Spec Diagnostics

- accuracy test
- gas bubbles
- liner damage
- low conductivity
- electrode corrosion, deposit on electrodes
- short circuit
- external magnetic fields
- partial filling of measuring tube