Level Measurement
Application Information Sheet

Company name: _____ Contact name: _____

Address: _____ Phone number: _____

City, State, Zip: _____ Email address: _____

End user (destination) _____

General Information

Measurement type, ☐ Non-contacting ☐ Contacting ☐ Contacting (level and interface measurement)

Measuring principle, ☐ FMCW radar ☐ TDR radar ☐ Ultrasonic ☐ Displacer ☐ Magnetic bypass level indictor (MLI)

Tank/ vessel tag # _____

Tank/ vessel material, _____

A .. tank/ vessel height _____ E .. process connection _____

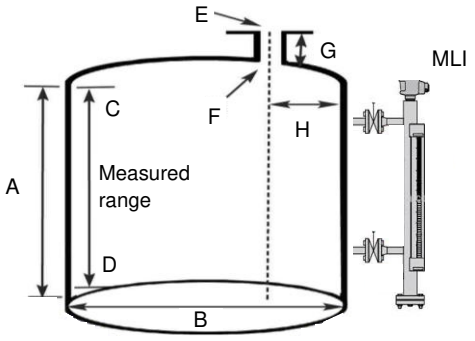
B .. tank/ vessel width _____ F .. nozzle diameter _____

C .. maximum fluid level _____ G .. nozzle height _____

D .. minimum fluid level _____ H .. nozzle center to wall _____

Stilling well/ stand pipe? ☐ No ☐ Yes _____

(describe dimensions and material)



Process conditions

Medium name _____ ☐ liquid ☐ sludge ☐ powder ☐ paste

Characteristics, ☐ Clean ☐ Crystalizes ☐ Deposits ☐ Coats ☐ Dusty

Medium surface, ☐ Smooth ☐ Foams ☐ Strong surface movement (agitated tank)

Dielectric constant, Upper _____ Lower _____ *(required for level interface measurement)*

Vessel pressure, Normal _____ Minimum _____ Maximum _____ ☐ psia ☐ psig ☐ bara ☐ barg

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

Magnetic bypass level indicator (MLI) specifications

Measuring length _____ Chamber mat'l _____ Vent required? _____

Centerline length _____ Float material _____ Drain required? _____

Mode of operation _____ Sealing _____ Isolation valves _____

Process connections _____ Indicator / scale _____ Transmitter? _____

Orientation _____ Limit switch (s) _____

FMCW & TDR radar specifications

Process connection, Size: _____ ☐ ASME 150# ☐ ASME 300# ☐ ASME 600# ☐ ASME 900# ☐ ASME 1500# ☐ ASME 2500#

☐ RF facing ☐ FF facing ☐ inch NPT ☐ _____

Feedthrough seal, ☐ Without ☐ FKM/FPM ☐ Kalrez 6375 ☐ EPDM ☐ PFA ☐ Metaglass ® dual sealing

Sensor material, ☐ 316 SST ☐ 316L SST ☐ Hastelloy ☐ PTFE ☐ PVDF ☐ Polypropylene

FMCW radar sensor, ☐ Drop antenna ☐ Horn antenna ☐ Wave horn ☐ Hygienic antenna

FMCW radar options, ☐ _____ ☐ _____

TDR radar sensor, Length: _____ ☐ Single cable ☐ Double cable ☐ Single rod ☐ Double rod ☐ Coaxial

TDR radar options, ☐ _____

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FMCW & TDR radar specifications

Agency approvals,	☐ Without	☐ SIL2 compliant	☐ FDA	☐ NACE-design MR0175
	☐ FM IS	☐ FM XP	☐ _____	
Signal converter,	☐ Without	☐ Compact-mounted	☐ Remote-mounted	(remote signal cable length) _____
Orientation,	☐ Horizontal	☐ Vertical		
Display,	☐ Without HMI	☐ with HMI display on the side	☐ with HMI display on the top	
Converter housing,	☐ Aluminum	☐ Stainless steel	☐ with weather protection cover	
Power supply,	☐ 24 VDC	☐ 120 VAC		
Output signal,	☐ Without	☐ _____		
Communication protocol,	☐ HART	☐ Profibus PA	☐ Foundation Fieldbus	
Calibration,	☐ Standard	☐ 2-point calibration	☐ 5-point calibration	

Notes/ comments: _____

_____

_____

KROHNE Level Solutions

Non-contacting level measurment

OPTIWAVE 5200 C/F
- FMCW radar, 2-wire
- Liquids, pastes & slurries
- HART, FF, Profibus PA
- SIL2, CRN compliant
- SST, PP or PTFE antenna

OPTIWAVE 6300 C
- FMCW radar, 2-wire
- Solids, powders & granulates
- Ideal for dustry applications
- 2nd current output option
- SST, PP, PTFE antenna

OPTIWAVE 7300 C
- FMCW radar, 2-wire
- Liquid , paste or slurry applications
- 2nd current output option
- 0.12" standard accuracy
- SST, Hastelloy C22, PP, PTFE antenna

OPTISOUND 3010, 3020, 3030 & VU30/31
- Ultrasonic level and open channel flow meter
- 2 & 4-wire version
- PVDF or CPVC sensor material options

Contacting level measurement

OPTIFLEX 1100 C
- TDR guided radar, 2-wire
- Economical solution
- Liquid & solids
- SST sensor

OPTIFLEX 1300 C
- TDR guided radar, 2-wire
- Liquids & solids
- Interface applications
- 2nd current output option
- SST, Hastelloy sensor

OPTIFLEX 2200
- TDR guided radar, 2-wire loop-powered
- Liquid & solids
- Compact or remote converter configurations
- SIL2 compliant
- Converter can be installed up to 328' from sensor
- HART, FF, Profibus PA

BM 26 series
- Magnetic bypass level indicator (MLI)
- Liquid applications
- Interface application
- Can be combined with FMCW radar
- Can be combined with TDR radar