

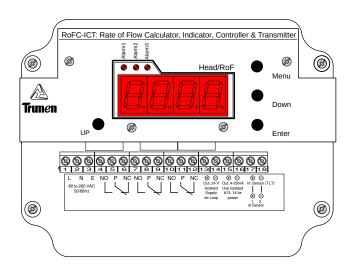
RoFC-ICT

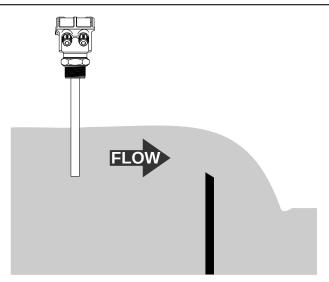
Technical Specification
Document

Capacitance Head Level Sensor type Rate of Flow Calculator, Indicator, Controller and Transmitter Approvals & Certifications:









Head Height inch/mm selectable

All Wiers Supported

Head Correction Available

Relay & Alarm outputs

Head/RoF Field Selectable

Alarms with Switching Bands

General Expression

$RoF=K_w(L - K_hH) H^n$

L is Length of Wier K_W is wier constant K_h is head correction constant H is level head n is RoF factor n may have any value in range 1.00 to 6.00 not limited to 0.5 steps

Wier Types and Factors

Rectangular wier without contraction

RoF=K_wLHⁿ

K_h=0: no head correction

Rectangular wier with contraction

 $RoF = K_w (L - K_h H) H^n$

head correction applied

Order Code

RoFC-ICT Rate of Flow Calculator with Indicator, Controller and Transmitter

--ICT-- Indicator, Controller and Trasmitter have following fixed specifications

Power Supply: 80 to 260VAC 50/60Hz max power consumption is 5 Watts

Enclosure: Aluminum pressure die-casted windowed IP-65 with 3 Cable entried having PG-11 glands

Rx Number of alarm and SPDT relay outputs R1 = 1 Realy, R2 = 2 Relays, R3 = 3 Relays

--Sensor-- Sensor is always SS-304 coated with PTFE insulation, inactive length material is always SS-304

Sensor Process connection material is always SS-304 unless otherwise specified

SGxxx Sensor Inactive (non-measurement) length 0mm or 100 to 300mm

SLxxxx Sensor Active (measurement) length 100 mm to 3000mm

SPx Sensor Process Connection Type (PFL: Flanged Type – description of flange - FL -at the end of order code)

(PB1: BSP 1", PB2: BSP 1 ½", PB4: BSP 1 ¼", PB5: BSP 2")

(PN1: NPT 1", PN2: NPT 1 ½", PN4: NPT 1 ¼", PN5: NPT 2")

(PT1: Triclover/Triclamp 1½", PT2: Triclover/Triclamp 2")(PCS: Special Process Connection)

FLxx Flange type and bore size specified for ASA/ANSI/JIS/DIN/Custom

Trapazoidal wier with contraction

RoF=K_wLHⁿ

K_h=0: no head correction

Notch wier (90° or any angle)

 $RoF=K_wLH^n$

K_h=0 : no head correction n may have value 2.39 to 2.67