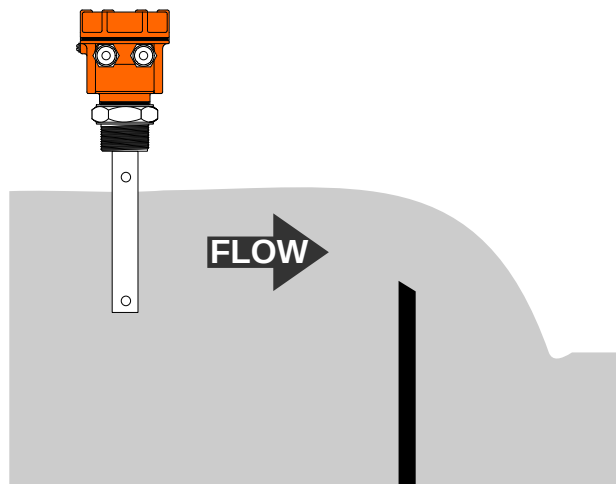
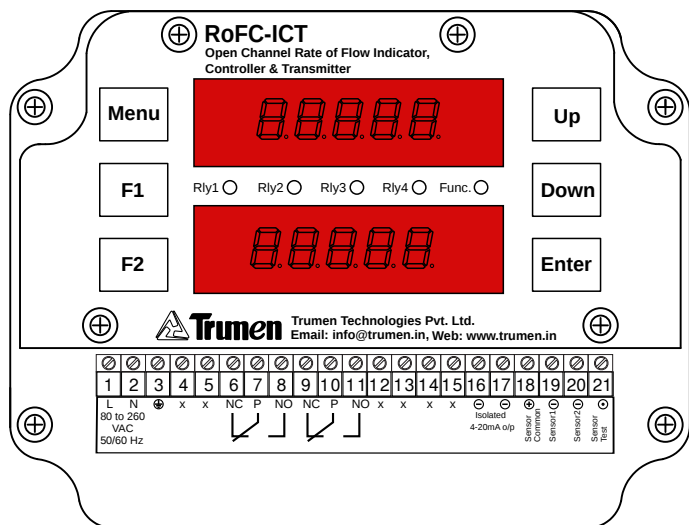


RoFC...ICT

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

Order Code

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

--ICT-- Indicator, Controller and Trasmmitter 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
SLxxx 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 1/2", PB4: BSP 1 1/4", PB5: BSP 2")
(PN1: NPT 1", PN2: NPT 1 1/2", PN4: NPT 1 1/4", PN5: NPT 2")
(PT1: Triclover/Triclamp 11/2", PT2: Triclover/Triclamp 2")(PCS: Special Process Connection)

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

General Expression

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

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

$$RoF = K_w L H^n$$

$K_h = 0$: no head correction

Rectangular wier with contraction

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

head correction applied

Trapazoidal wier with contraction

$$RoF = K_w L H^n$$

$K_h = 0$: no head correction

Notch wier (90° or any angle)

$$RoF = K_w L H^n$$

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

Specifications are subject to change without prior notice

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