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

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**Head Height inch/mm selectable**

**All Wiers Supported**

**Head Correction Available**

**Relay & Alarm outputs**

**Head/RoF Field Selectable**

**Alarms with Switching Bands**

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**General Expression**

\[ \text{RoF} = K_w (L - K_h H)^n \]

- **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

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**Wier Types and Factors**

**Rectangular wier without contraction**

\[ \text{RoF} = K_w L H^n \]

**K_h = 0**: no head correction

**Rectangular wier with contraction**

\[ \text{RoF} = K_w (L - K_h H)^n \]

**Trapazoidal wier with contraction**

\[ \text{RoF} = K_w L H^n \]

**K_h = 0**: no head correction

**Notch wier (90° or any angle)**

\[ \text{RoF} = K_w L H^n \]

**K_h = 0**: no head correction

**n** may have value 2.39 to 2.67

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**Order Code**

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

- **ICT**
  - Indicator, Controller and Transmitter 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 entered having PG-11 glands

- **Rx**
  - Number of alarm and SPDT relay outputs R1 = 1 Relay, 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

  | SGxxxx | 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 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 1 1/2”, PT2: Triclover/Triclamp 2” (PCS: Special Process Connection)

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