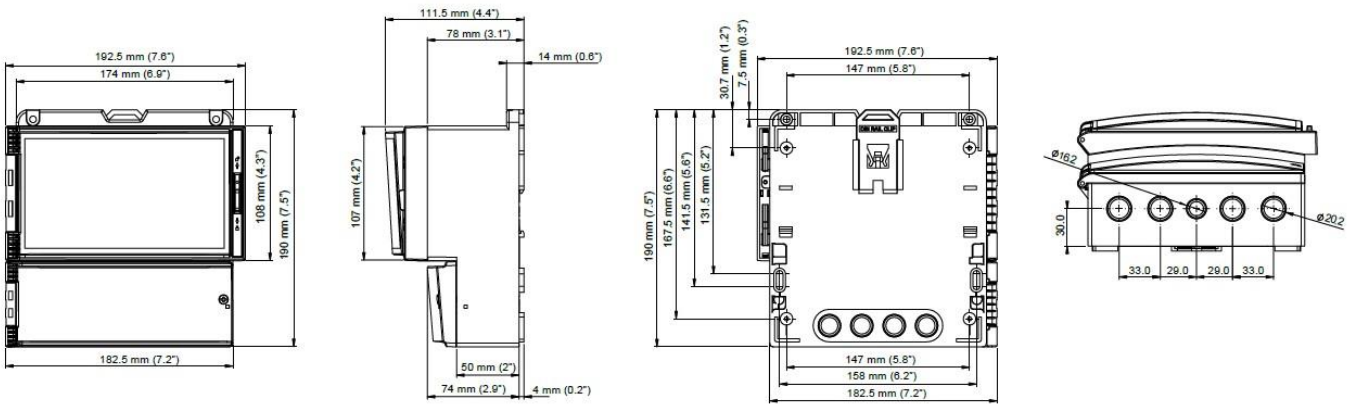


OPEN CHANNEL FLOWMETER

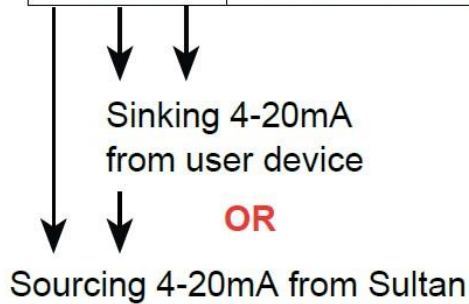


Remote Amplifier



AWFR Remote Transmitter (AWFR234)

RELAY 1			RELAY 2			RELAY 3			RELAY 4			RELAY 5		
NC	COM	NO	NC	COM	NO	NC	COM	NO	NC	COM	NO	NC	COM	NO
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Is	+	I	RED	BLACK	BLUE	WHITE	Test In	B	A	-	+		N	L1
4-20mA			TRANSDUCER			COMMS			DC-In		AC-In*			



*AC-In is replaced by 36-60VDC with Power Input Option 'C'.

Sultan Flow Remote Electronics

Model

AWFR234 Remote Open Channel Flow Transmitter

Housing

S Standard polycarbonate electronics housing

Power Supply

B 12-30 VDC

U 90-260VAC and 12-30VDC

C 30-48 and 48-90VAC

Output Configuration (PC comms Goshawk standard)

S Switch only. 5 relays

X 4-20mA analogue

I 4-20mA analogue with HART Isolated 4 wire (AWR234 only)

Internal HawkLink Modem (not available)

X Not Available

Approval Standard

A22 ATEX Grp II Cat 3 GD T85°C IP67 Tamb -40°C to 70°C

X Not Required

Software Options

X Not required

AWFR234 S U X X X X

Sultan Remote Transducer 3"

AWRT00T4 or AWRT20 recommended for dirty process conditions which require enhanced seal cleaning capability

Model

AWRT Acoustic Wave Remote Transducer

Transducer Frequency

- 30 30kHz for applications up to 15m (4" cone required)
- 20 20kHz for applications up to 20m, (4" cone is required)

Process Temperature - Facing material selection

- T Teflon 80°C (176°F)

Transducer Housing Material

- 4 Polypropylene

End Cap Mounting Thread

- X Not Required (Standard Flange Mount)
- TB BSP

End Cap Mounting Thread Sizes

- X Not Required (Standard Flange Mount)
- 30 3" for 30, 20kHz

Approval Standard (consult safety instructions)

- X Not Required
- i0 IECEx Zone 0 Ex ia IIA T4 IP67 Tamb -20°C to 70°C
- A0 ATEX Grp II Cat 1 GD IP67 EEx ia IIA T4
- i1 IECEx Zone 1 Ex mb II IP68 T5(Tamb -20°C to 65°C) T6(Tamb -20°C to 50°C)
- A1 ATEX Grp II Cat 2 GD EEx m II IP68 T5(Tamb -20°C to 65°C) T6(Tamb -20°C to 50°C)
- i20 IECEx Zone 20 DIP A20 TA85C IP68 Tamb -20°C to 75°C
- A20 ATEX Grp II Cat 1 D T85°C IP67 Tamb -20°C to 75°C
- A22 ATEX Dust (Grp II Cat 3 D T85C IP67)
- GP CSA Equip Class 2; Pollution deg 2; Tamb -20°C to 75°C (Ordinary Locations)
- RN CSA Class I; Div 1/2; Group D; Zone 0; AEx / Ex ia IIA; T4
- KN CSA Class II; Div 2; Group F&G; Class III; T6 T85 for Tamb -20°C to 75°C
- QN CSA Class II; Div 1; Group E, F&G; Ex mb II; T5(T100) for Tamb -20°C to 65°C; T6(T85) for Tamb -20°C to 50°C

Connection

- C IP68 Sealed unit with cable

Cable Length

- 6 6m cable
- 15 15m cable
- 30 30m cable
- 50 50m cable

Mounting Accessories

- X Not Required
- CS End Cap Cable Suspension 30 / 20kHz only

Accessories

- F Multifit shading flange with 1" threaded connection and fast temp compensation
- X Not Required

AWRT 30 T 4 X X X C 6 X X

Flange Selection

F Flange

Dimension Standard

- A ANSI
- D DIN
- J JIS

Flange Sizes

- 2N 2" NPT flange 2" NPT transducer thread body mounted only
- 2B 2" BSP flange (2" BSP transducer thread body mounted only)
- 4 4" acoustically isolated flange (fits 3" & 2" units with cone)
- 6 6" acoustically isolated flange (fits 3" & 3.5" units)
- 8 8" acoustically isolated flange (fits 3" & 3.5" units)
- 10 10" acoustically isolated flange (fits 3" & 3.5" units)

Flange Mounting Position

- A Cone Mounted (standard)
- B Transducer Body Mounted
- C Angled flange piece only

Flange Material

- 4 Polypropylene

F A 4 A - 4

Cone Selection

C Foculiser Cone

Cone Size-Matching Transducer

- 02N C04 cone for 2" NPT transducer (fits FA4A-4 flange)
- 02B C04 cone for 2" BSP transducer (fits FA4A-4 flange)
- 04 4" cone for 20kHz and 3" 30kHz transducers

Cone Material

- 4 Polypropylene
- 7A Carbon Fibre. Comes attached to Carbon Fibre ANSI Flange
- 7D Carbon Fibre. Comes attached to Carbon Fibre DIN Flange
- 7J Carbon Fibre. Comes attached to Carbon Fibre JIS Flange
- 8 Polyurethane

C 04 - 4

Special Cone/Flange

C03-4-Z OD72mm cone for 20kHz and 3" 30kHz

FA3A-4 3" ANSI flange for C03-4-Z

Accessories

HAWKLink Data Modem

Model

HLR Remote stand alone HAWKLink system

Power Supply

B 12-30VDC

U 12-30VDC and 90-260VAC

Network Type

G3 3G Autoband

Sim Card

S3 Australian Sim Card expires after 3 month

S12 Australian Sim Card expires after 12 month

X Not Required

HLR U G3 S3

HAWKLink USB PC connector for GosHawkII

HAWKLink-USB

Stainless Steel Sunhood

SUNHOOD

Junction Box for twin Transducer applications

AWRT-JB-01

AWRT-JB-06 (includes 6m cable)

Extra Cable (Belden 3084A)

CA-TXCC-R-C15 15m cable

CA-TXCC-R-C30 30m cable

CA-TXCC-R-C50 50m cable

CA-TXCC-R-C100 100m cable