Description

Extended calorimetric monitoring head with variable immersion depth for Flow Meter FC100-CA, suitable for use in pipelines with process connections DN 50 plus.

Caution: Fix with locking set 01 (see accessories).

Features

- Medium temperature range
  Stainless steel version: -40 °C ... +130 °C/-40 °F ... +266 °F
- Material: stainless steel 1.4571/AISI 316 Ti
- Not suitable for carbon dioxide and argon!

Monitoring head CSF

CSF-11
variable immersion depth

Ordering information

Type									
CSF	Extended monitoring head with calorimetric sensors								
	Monitoring head design								
	11 Monitoring head with variable immersion depth								
		Medium							
		A air							
			Material of areas exposed to medium						
			M1 stainless steel 1.4571/AISI 316 Ti						
			M2 nickel-base alloy Hastelloy alloy C4 2.4610						
				Process connection					
				00 without flange; see accessories for connections					
					Length of shank/thread				
					L43 188 mm (standard) other lengths upon request				
						Electrical connection			
						E10 round connector with tinned contacts (plug and cable to order separately)			
							Certification		
							T0 without certificate (standard) *)		
								Specification of medium	
								xxx	
CSF	**-** **11**	**A**	**M1**	**00**	**L43**	**E10**	**T0**	**-** **...**	ordering example

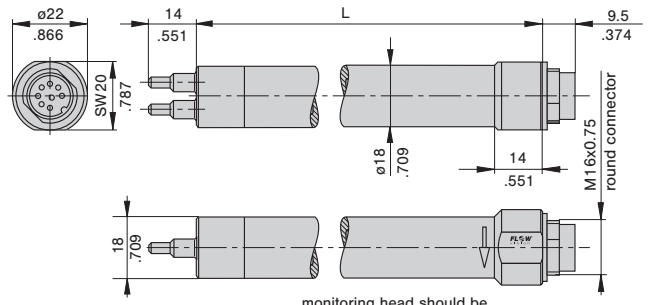
*) for detailed information please see section 0

Technical data

Type of head	push-in
Shank diameter	18 mm/.709 in. without thread
Length of shank	188 mm/7.40 in.
Length of sensor	14 mm/.551 in.
Suitable for	air, compressed air, nitrogen, oxygen, methane, hydrogen and other gases (please enquire)
Temperature range*) (of gas)	-40 °C ... +130 °C/-40 °F ... +266 °F (stainless steel)
Temperature drift of sensor	± < 0.05 %/°K/measuring range (in the range between +20 °C ... +80 °C/ +68 °F ... +176 °F)
Measuring ranges: Flow velocity range:	depending on immersion depth; 0 - 68 (100) Nm/s
Pressure resistance (1) (sensor)	100 bar/1450 psi (stainless steel)
Pressure resistance (1) (installation)	depending on connection (see accessories)
Degree of protection	connector (2): IP67
Material	stainless steel 1.4571/AISI 316 Ti
Cable to electronic unit	LifYCY 4x2x0.2 mm² (AWG 24)

(1) Admissible operating pressure DIN 2401, measured at max. temperature (= max. medium temperature)
(2) with mating connector
*) max. +85 °C/+185 °F in the connector area

Dimensions



Type	L	
	mm	inch
CSF-...L43...	188	7.40
CSF-...L30...	300	11.81
CSF-...L40...	400	15.75

This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

Cable types 15/18 with connectors

Do + Ka type 15
Do + Ka type 18

Description

Cable between Flow Meter FC100-xxx and calorimetric monitoring head type CSF.

- Connection to monitoring head by means of 8-pole round connector
- Connection to FC100-xxx by means of 10-pole clamping connector (XSK)

Technical data

Cable type 15	
Features:	highly flexible, paired, fully shielded, electrical and thermal properties at +20 °C/+68 °F
Conductor resistance:	92 Ω/km
Insulation resistance:	20 MΩ x km
Operating voltage:	250 V
Withstand voltage:	500 V
Max. load:	2 A
Temperature range:	-10 °C ... +80 °C/+14 ° F ... +176 °F (processing and operation) -30 °C ... +80 °C/-22 ° F ... +176 °F (transport and storage)
Cable type 18	
Features:	non-halogenous, highly flexible, cold- and heat resistant, paired, fully shielded, electrical and thermal properties at +20 °C/+68 °F
Conductor resistance:	80 Ω/km
Insulation resistance:	1200 MΩ x km
Operating voltage:	300 V
Withstand voltage:	1500 V
Max. load:	3 A
Temperature range:	-50 °C ... +180 °C/-58 °F ... +356 °F

Ordering information

Type between calorimetric monitoring heads **CSF** and **FC100-CA, FC100-FH-CA**

Do + Ka type 15	**PVC** insulated cable, type LifYCY 4x2x0.2 mm² (AWG 24) 8-pole round connector + 10-pole clamping connector	
Do + Ka type 18	**silicone** insulated cable, type 4x2x0.2 mm² (AWG 24) 8-pole round connector + 10-pole clamping connector	
	Available cable lengths	
	...m	2 m, 3 m, 5 m, 8 m, 10 m, 15 m, 20 m, 25 m, 30 m, 40 m, 50 m, 60 m, 70 m, 80 m, 90 m, 100 m, 110 m, 120 m, 130 m, 140 m, 150 m, 160 m, 170 m, 180 m, 190 m, 200 m (up to max. 656 ft)
Do + Ka type 15 -	**2 m**	ordering example