AMFLO® SONIC Dry-X III

Ultrasonic flow sensor

User Manual



Legal notice

Document release index

Version	Date	Modification(s)
01	07/04/2025	First release
02	18/06/2025	Update of the technical data
03	16/11/2026	Correction minimal length

Original instructions

Publisher

INTEGRA Metering AG Ringstrasse 75

CH-4106 Therwil Switzerland

Phone: +41 61 725 11 22

info@integra-metering.com

www.integra-metering.com

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The figures and information in these instructions are subject to technical changes that become necessary to improve the product.

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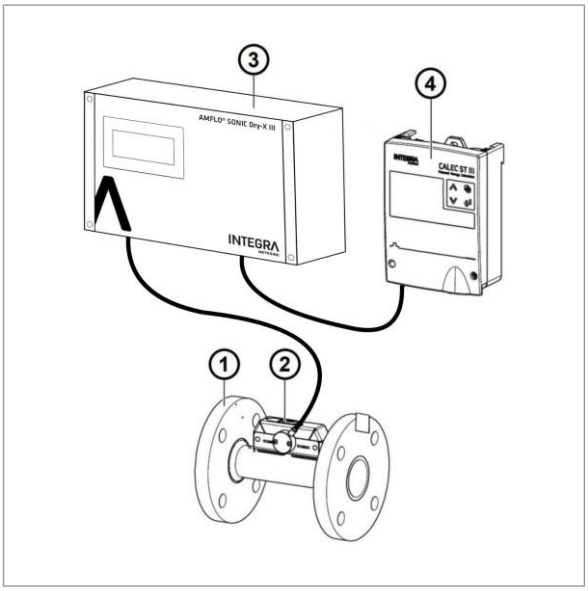
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1. Introduction

1.1. About this product

1.1.1. Product description

The AMFLO® SONIC Dry-X III flow sensor is based on an innovative exchange concept and requires no in and out sections.



The sensor can be exchanged during operation:

- Easy replacement or legal re-verification/calibration of the meter (no process interruption)
- Less planning
- Lower cost of ownership

The AMFLO® SONIC Dry-X III is designed for heat calculation applications. Flow is measured using ultrasound. The system consists of:

1. Measurement tube
2. Sensor head
3. Measurement electronics

The AMFLO® SONIC Dry-X III is designed and optimized to work together with the CALEC® ST III

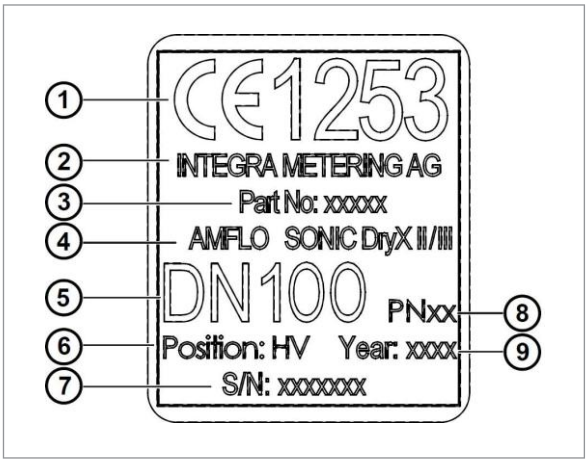
Smart / Advanced energy calculator (4). The CALEC ® ST III Smart / Advanced energy calculator supplies the 24VDC power to the AMFLO® SONIC Dry-X III measurement electronics.

The AMFLO® SONIC Dry-X III pulse output is adapted to CALEC® ST III Smart / Advanced abilities.

1.1.2. Product identification

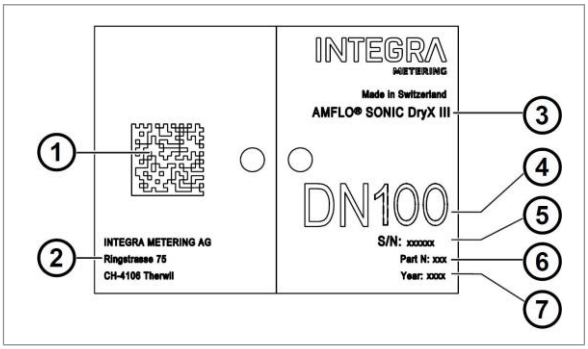
The face plates of the AMFLO® SONIC Dry-X III state the following information:

Type plate on the measurement tube



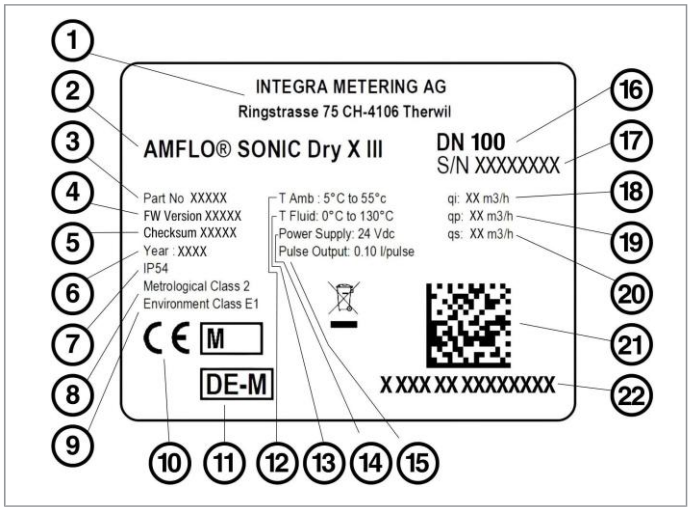
1 CE 1253
2 Manufacturer
3 Part number
4 Product name
5 Nominal diameter
6 Position
7 Serial number
8 Nominal pressure
9 Manufacturing year

Identification label on the sensor head



1 Data matrix
2 Manufacturer
3 Product name
4 Nominal diameter of measurement tube
5 Serial number of electronics (sensor head and measurement electronics)
6 Part number
7 Manufacturing year

Face plate on the measurement electronics



1	Manufacturer
2	Product name
3	Part number
4	Firmware version
5	Checksum
6	Manufacturing year
7	IP protection code
8	Metrological class
9	Environment class
10	Marking heating (Europe CE)
11	Marking cooling (DE)
12	Range of ambient temperature
13	Range of medium temperature
14	Power supply specification
15	Pulse output
16	Nominal diameter of measuring tube
17	Serial number of electronics
18	Minimum flow qi
19	Nominal flow qp
20	Maximum flow qs
21	2D code, according to ISO/IEC 1602
22	Manufacturer-independent identification number according to DIN 43863-5

1.1.3. Technical data

General

Nominal diameter	DN 32 – DN 250
Measurement tube	AISI 316 L
Medium	Water
Nominal pressure	PN 40 / PN 25 / PN 16
Degree of protection	Sensor head: IP 68 / Measurement electronics: IP 54
Medium temperature	0 – 130 °C
Ambient temperature	5 – 55 °C
Accuracy	Class 2 acc. to EN 1434
Sensor head cable dimension	Length: 10 m External diameter: 7 mm Bending radius: 100 mm
Sensor head cable description (*)	Core: x2 2 poles coaxial cable RG178 External shielding : mesh External jacket: black Measurement electronic side: sleeved cable Sensor head side: fixed

(*) The sensor head cable has a fixed length. It cannot be cut, short-ened, disconnected from the head or modified in any way. Refer to the instructions for electrical installation.

Measurement electronics input and output specification

Power supply (*)	24 VDC, 150 mA (11 until 32 VDC)
Pulse output type	Digital output
Pulse length	2.5 ms
Max. Frequenz	200 Hz

Range of measurement

Approved according to EN 1434 class 2, measurement dynamic qi/qp = 1:100, qs/qp = 1.25

Nominal diameter	DN	mm	32	40	50	65	80	100	125	150	200	250
Minimum flow	qi	m³/h	0.12	0.2	0.3	0.5	0.8	1.2	2.0	3.0	5.0	8.0
Nominal flow	qp	m³/h	12	20	30	50	80	120	200	300	500	800
Maximum flow	qs	m³/h	15	25	37.5	62.5	100	150	250	375	625	1000
Velocity (qi)		m/s	0.041	0.044	0.042	0.042	0.044	0.042	0.045	0.047	0.044	0.045
Velocity (qp)		m/s	4.15	4.42	4.24	4.19	4.42	4.24	4.52	4.71	4.42	4.53
Δp (qp/2)*		mbar	37	46	46	44	51	49	55	63	58	62
Max. Pressure loss at qp		mbar	148	184	184	176	204	196	220	252	232	248
Flow at Δp=100 mbar		m³/h	9.9	14.7	22.1	37.9	56.1	85	135	189	328	508
Kvs		m³/h	31.2	46.6	69.7	120	178	270	426	597	1038	1606
Impulse weight		ml	100	100	100	200	200	1000	1000	1000	2000	2000

* Equivalent to standard values of qp acc. to EN 1434.

Appendix A: Approved according to EN 1434 class 2, measurement dynamic qi/qp = 1:250 , qs/qp = 1.25

Nominal diameter	DN	mm	32	40	50	65	80	100	125	150	200	250
Minimum flow	qi	m³/h	0.048	0.08	0.12	0.2	0.32	0.48	0.8	1.2	2.0	3.2
Nominal flow	qp	m³/h	12	20	30	50	80	120	200	300	500	800
Maximum flow	qs	m³/h	15	25	37.5	62.5	100	150	250	375	625	1000
Velocity (qi)		m/s	0.017	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Velocity (qp)		m/s	4.15	4.42	4.24	4.19	4.42	4.24	4.52	4.71	4.42	4.53

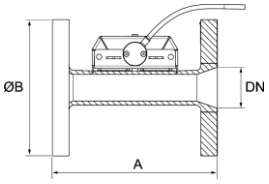
* Equivalent to standard values of qp acc. to EN 1434.

Appendix B: Approved according to EN 1434 class 2, measurement dynamic qi/qp = 1:100, qs/qp = 2

Nominal diameter	DN	mm	32	40	50	65	80	100	125	150	200	250
Minimum flow	qi	m³/h	0.06	0.1	0.15	0.25	0.4	0.6	1.0	1.5	2.5	4.0
Nominal flow	qp	m³/h	6	10	15	25	40	60	100	150	250	400
Maximum flow	qs	m³/h	12	20	30	50	80	120	200	300	500	800
Velocity (qi)		m/s	0.021	0.022	0.021	0.021	0.022	0.021	0.023	0.024	0.022	0.023
Velocity (qp)		m/s	2.072	2.210	2.122	2.093	2.210	2.122	2.264	2.358	2.210	2.264

* Equivalent to standard values of qp acc. to EN 1434.

Dimensions and device connection

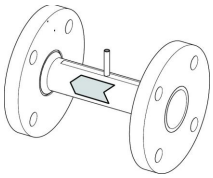


All flange holes are according to EN 1092-1.

Nominal diameter	DN	mm	32	40	50	65	80
Minimum length*	A	mm	150	165	200	200	175
Flange diameter	ØB	mm	140	150	165	185	200
Weight measuring tube		kg	4.5	5	7.5	10	11
Weight sensor head		kg	0.85	0.8	0.8	0.8	0.8
Sensor head fixing screw (hexalobular, Torx)			T20	T20	T20	T20	T20

Nominal diameter	DN	mm	100	125	150	200	250
Minimum length*	A	mm	200	250	300	350	400
Flange diameter	Ø	mm	220	270	300	375	450
Weight measuring tube		kg	13-18	17-20	30–33	35–50	60–97
Weight sensor head		kg	0.8	1.4	1.4	1.4	1.4
Sensor head fixing screw (hexalobular, Torx)			T20	T30	T30	T30	T30

* The installation length can be customized to meet specific requirements.

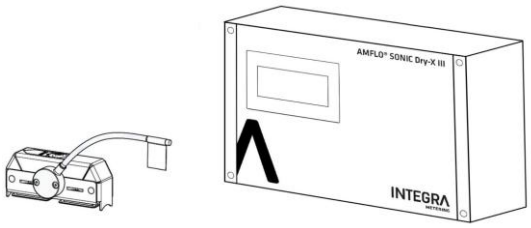


System component: Measurement tube

Nominal diameter	Length in mm	Art. No.		
		PN40	PN25	PN16
DN 32	150	98277		
	200	98278		
	260	98279		
DN 40	165	98280		
	200	98281		
	220	98361		
	300	98282		
DN 50	200	98283		
	270	98284		
	300	98350		
	465	98362		
	475	98363		
	200	98285		
	300	98286		

Nominal diameter	Length in mm	Art. No.		
		PN40	PN25	PN16
DN 65	460	98364		
	475	98365		
DN 80	175	98287		
	200	98288		
	225	98289		
	300	98290		
	350	98366		
	380	98367		
	400	98368		
DN 100	200	98291		98294
	250	98291		98295
	350	98351		98352
	360	98293		98296
	375			98369
	400	98370		
DN 125	250	98297		98300
	350	98298		98301
	375			98371
	400	98299		98302
DN 150	300	98303		98307
	350	98304		98308
	360			98372
	400	98305		98309
	500	98306		98310
DN 200	350	98311	98315	98319
	400	98312	98316	98320
	450			98373
	490	98313	98317	98321
	500	98314	98318	98322
DN 250	400	98323	98327	98331
	450	98324	98328	98332
	575	98325	98329	98333
	600	98326	98330	98334

System component: Sensor head and measurement electronics



With measuring electronics 3.2kg

Nominal diameter	Art. No.	Art. No.	Art. No.
	qi/qp=1:250, qs/qp=1.25	qi/qp=1:100, qs/qp=2	qi/qp=1:100, qs/qp=1.25
DN 32	99590	99580	99570
DN 40	99591	99581	99571
DN 50	99592	99582	99572
DN 65	99593	99583	99573
DN 80	99594	99584	99574
DN 100	99595	99585	99575
DN 125	99596	99586	99576
DN 150	99597	99587	99577
DN 200	99598	99588	99578
DN 250	99599	99589	99579

System component: Calculator

Device	Art. No.
CALEC® STIII Smart / Advanced	See CALEC® STIII documentation.

1.1.4. Conformity

CE guidelines	
2014/32/EU	Measuring Instruments Directive (MID)
2014/30/EU	Electromagnetic Compatibility (EMC)
2014/35/EU	Low Voltage Directive (LVD)
2012/19/EU	Waste Electrical and Electronic Equipment (WEEE)
2011/65/EU	Restriction of hazardous substances in electrical and electronic equipment (RoHS), amended by directive 2015/863/EU
2014/53/EU	Radio Equipment Directive (RED)

Standards
EN 1434
EN 61010-1
EN 62368-1
DIN 43863-5
EN 301 489-1
EN 301 489-3
EN 61326-1
EN 300 220-2
EN 50364

Specific
PTB K7.2, Ordonnance of FDJP 941.231 (CH)

1.1.5. Calibration and verification

In most countries energy metering systems used for commercial purposes are subject to compulsory verification.

The devices comprising the metering system must all possess official pattern approval.

Officially verified heat and cooling meters must be re-verified before the verification period has expired. The operator is responsible for compliance with this requirement. (Re-)verification includes all parts (temperature and flow sensors, calculator) forming the complete heat meter.

One of the benefits of the AMFLO® SONIC Dry-X III flow sensor is that the measurement tube stays in the system for three verification periods. After that it has to be unmounted and cleaned to ensure proper functioning.

Exchange or verification, when required, is only necessary for the sensor head and the measurement electronics, without intervention in the hydraulics. Sensor head and measuring electronics are one unit.

To be sent to the suited laboratory, they have to be packed up together in a suited and solid packaging to prevent any transit damage. Ideally, the original packaging is used.

1.1.6. Declaration of conformity

The declaration of conformity is available by scanning the QR-Code.

1.2. About the instructions

1.2.1. Purpose of this instruction

This instruction is part of the product. Keep the instruction handy so that it is always accessible at all times.

This instruction is intended to ensure that the product is used safely and for the intended purpose. The operator must ensure that the operating personnel have read and understood the instructions. The operator must ensure that the operating instructions of the associated products are also read and understood.

1.2.2. Structure of overall documentation

The following documents complete the documentation of this product:

- User manual (this document). Available for download on https://integra-metering.com/downloads
- Installation guide. Included in the product delivery.
- Technical data sheet. Available for download on https://integra-metering.com/downloads

1.2.3. Layout conventions

Symbols and text markups

This document contains various symbols and text markups.

Symbol	Name	Function
•	Enumeration	The grey dot marks a non-numbered list.
▶	Action	The grey triangle marks actions that must be performed in the corresponding order.
▶ ▷	Reaction	The white triangle marks the reaction to an action.
(1)	Item numbers	The numbers inside the brackets refer to the items in an image.
Legal notice [▶p. 2]	Cross-reference	Cross-references are used to refer to a chapter within the document. They are linked and are acces- sible from the PDF by a mouse click.



Tips are used to support the reader in handling the product.

2. Safety

2.1. Explanation of warning notices

DANGER

Danger

This safety warning indicates a hazard of high risk that will lead to serious physical injury or death.

- ▶ Measures to avoid the hazard.

WARNING

Warning

This safety warning indicates a hazard of medium risk that may lead to serious injury or death.

- ▶ Measures to avoid the hazard.

CAUTION

Caution

This safety warning indicates a hazard of low risk that may lead to minor or moderate injury.

- ▶ Measures to avoid the hazard.

NOTICE

Notice



The notice indicates a situation which may cause damage to property.

- ▶ Measures to avoid the property damage.

2.2. Intended use

The product must only be used for applications in accordance with the specifications in the technical data. Any other use is prohibited and is considered inadmissible.

2.3. General safety instructions

Personal safety

Make sure that your actions do not expose anyone to risk.

Personnel requirements

Any work on the product may only be carried out by qualified personnel. Necessary instruction can be provided by the manufacturer.

Occupational safety

The operator is subject to the legal obligations of occupational safety. Compliance with all locally applicable accident prevention regulations and general rules is the responsibility of the operator.

Instructions

The operating personnel must have read and understood the instructions. All safety instructions and instructions for action must be strictly observed. The operating instructions must be kept within easy reach.

Further operating instructions

The instructions of the associated products must also be read and understood. All safety instructions and instructions for action must be strictly observed.

2.4. Technical condition of the product

Spare parts

Replace defective parts only with original spare parts from INTEGRA Metering.

Software

The software must not be modified.

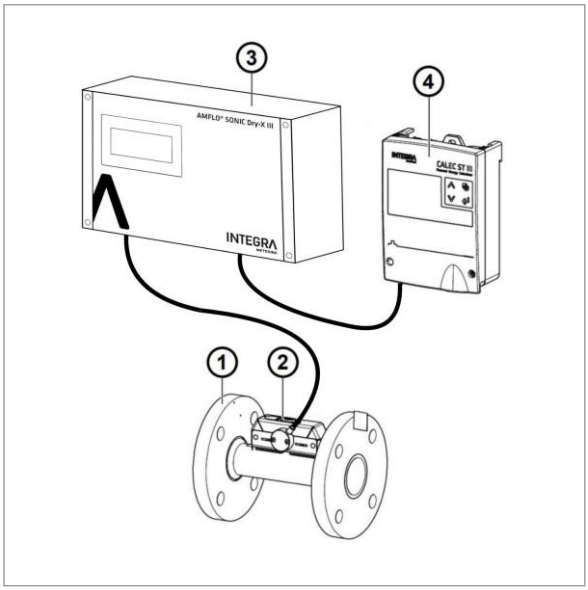
Backfitting

The product must not be backfitted. Changes of the operating mode must be agreed in writing with the manufacturer.

3. Product view

3.1. Product design

The AMFLO® SONIC Dry-X III system consists of the following components:



1. Measurement tube
2. Sensor head

The sensor head measures the flow rate in the measurement tube and sends it to a bidirec- tional pulse output.

3. Measurement electronics

The measurement electronics receives the pulses from the sensor head.

4. Calculator (CALEC® STIII Smart / Advanced)

The pulse output of the measurement elec- tronics is connected to the CALEC® STIII Smart / Advanced, which is the central unit. The CALEC® STIII Smart / Advanced can process the flow rate for display and/or to use it for energy calculation, together with its temperature sensors.

The CALEC® STIII Smart / Advanced is also used as the 24V power supply for the measurement electronics.

4. Transport / scope of delivery

NOTICE

Transport damage

Non-compliance with the required transport and environmental conditions can lead to trans- port damage and malfunctions.



- ▶ Protect the product from heat, moisture, dirt and vibration.
- ▶ Store the product in a cool and dry place.
- ▶ Do not remove the packaging until immediately before installation.

Check delivery

- ▶ Check delivery to ensure supply is complete.
- ▶ Check delivery for transport damage immediately upon receipt. In case of externally visible transport damage, proceed as follows:
- ▶ Do not accept delivery or accept it under reserve.
- ▶ Note the extent of damage on the transport documents or on the delivery note of the carrier.
- ▶ Report any damage to INTEGRA Metering immediately.

5. Installation

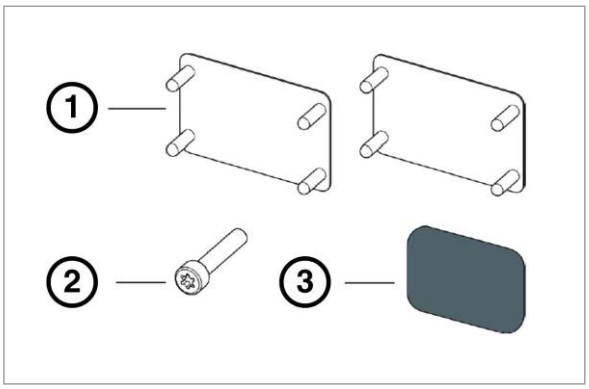
5.1. Conditions

- Meet the following conditions according to the specifications in the Technical data [▶p. 4] to ensure a reliable operation.
- Space requirements
- Ambient conditions
- Dimensions
- Electrical connection

5.2. Mounting accessories

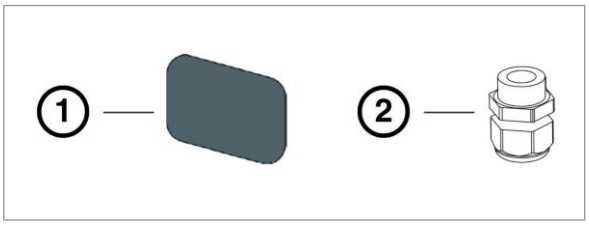
The device is delivered with two bags with mounting accessories.

Sensor mounting accessories



1. Silicon pads (2x)
2. Sensor head mounting screw
3. Sealing adhesive

Electrical wiring accessories

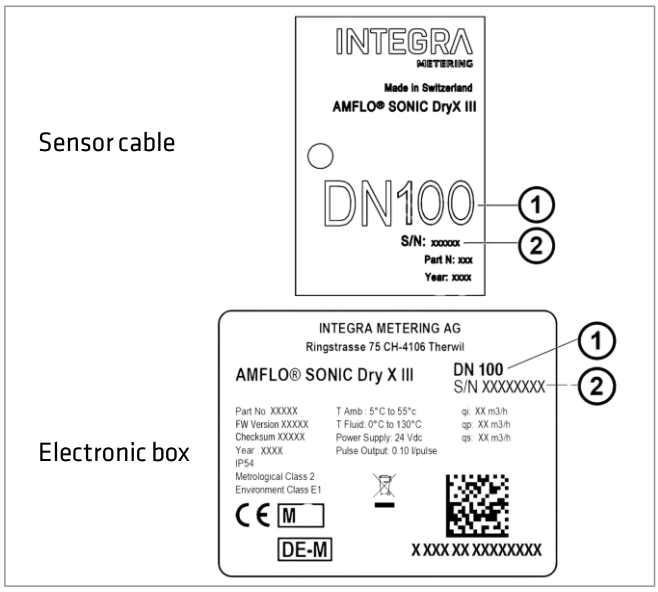


1. Sealing adhesive
2. Cable gland (2x) for 24 VDC, pulse forwards and pulse backwards

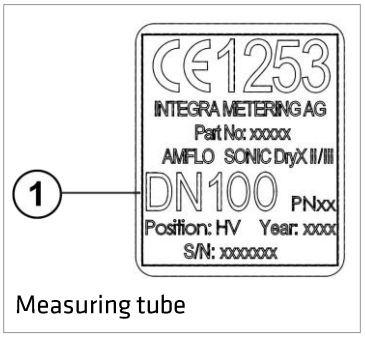
5.3. Matching diameters and serial numbers

The measurement tube, the sensor head and the measurement electronics form a self-contained system. The nominal diameters and the serial numbers of the individual components must match.

- Make sure that the nominal diameter (1) is identical at all three components.
- Make sure that the serial number (2) is identical on sensor head and measurement electronics.



Delivered together



Delivered separately

NOTICE

Mismatching diameters and serial numbers

Mismatching diameters and / or serial numbers will lead to incorrect measurement results.

- Make sure that the nominal diameter and the serial number is identical on all system com- ponents.

5.4. Mechanical installation

5.4.1. Installing the measurement tube

Mount the measurement tube with the flanges in accordance with the instructions for the used pipe system and pressure levels. Inlet and outlet sections are not required.

As an exception for heating systems with a lack of temperature mixing or temperature stratification, an inlet length of 10 DN must be provided at the installation site.

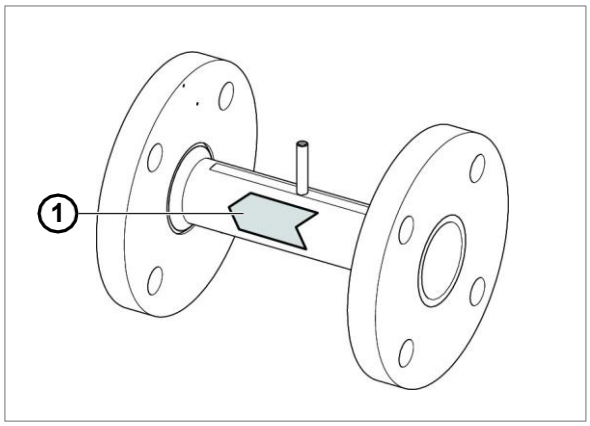
NOTICE

Incorrect measurement

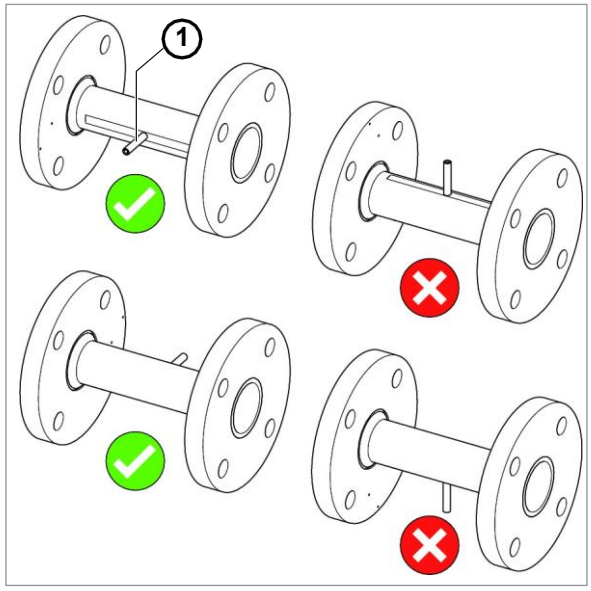
The flow sensor only measures correctly if the flow direction and the position of the pipes is correct.

- Observe the flow direction.

- Observe the flow direction indicator (1).

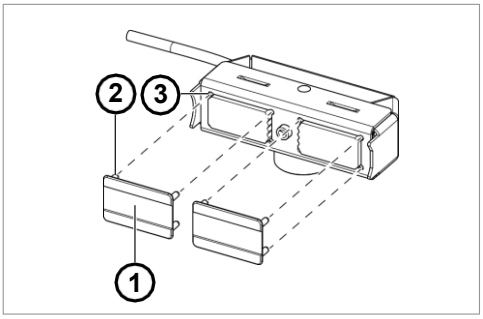


- Place the measurement tube in the pipe system.
- Check that the gaps between measurement tube and pipes are as small as possible.
- For horizontal installation, align the fastening screw (1) on the measurement tube to the side. The sensor head must be installed on the side. The measuring tube can also be mounted vertically.
- Insert and tighten the screws with the recommended torque of the used pipe system.

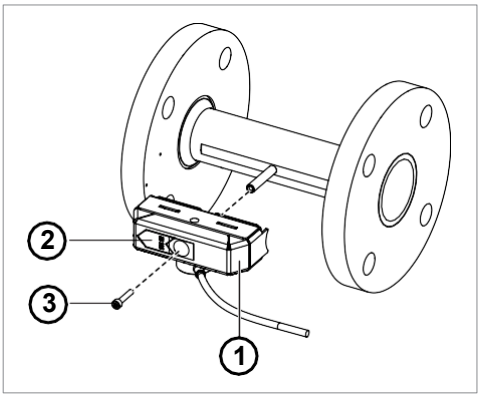


5.4.2. Installing the sensor head

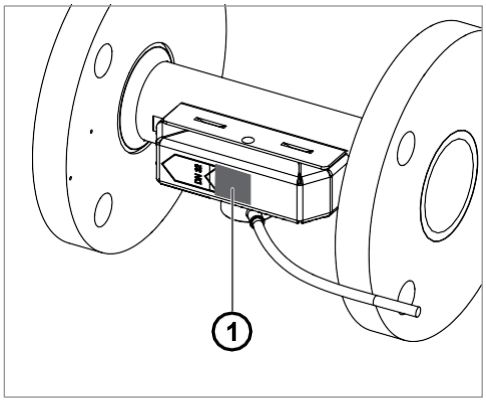
- Mount the silicone pads (1) on the sensor head.



- Make sure that all pins (2) on the silicone pads fit in the holes (3) of the sensor head.
- Install the sensor head (1) on the measurement tube.
- Refer to the arrow (2) on the sensor head to ensure the correct flow direction.
- Tighten the screw (3) until the ends of the sensor head are flush with the measurement tube. Apply a maximum torque as defined M4 (DN32 -> DN100) 2,4Nm, and M6 (DN125 -> DN250) 8Nm.
- It is recommended to apply grease on the screw.



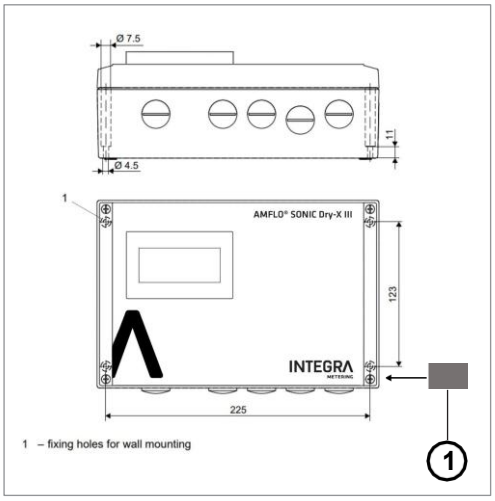
- Attach the sealing adhesive (1) above the mounting screw to prevent from unwanted manipulation. The sealing adhesive can be found in the sensor mounting accessories.



5.4.3. Installing the measurement electronics on a wall

Tools and installation material are not included in the delivery.

- Loosen the screws of the measurement electronics housing.
- Open the housing cover of the measurement electronics.
- Fix the measurement electronics to the wall using 4 screws.
- After the installation is completed, attach the sealing adhesive (1) above the mounting screw to prevent from unwanted manipulation.



5.4.4. Installing the Calculator (CALEC® STIII Smart)

- See "Installation guide CALEC® STIII Standard & Smart".

5.5. Electrical installation

⚠ DANGER

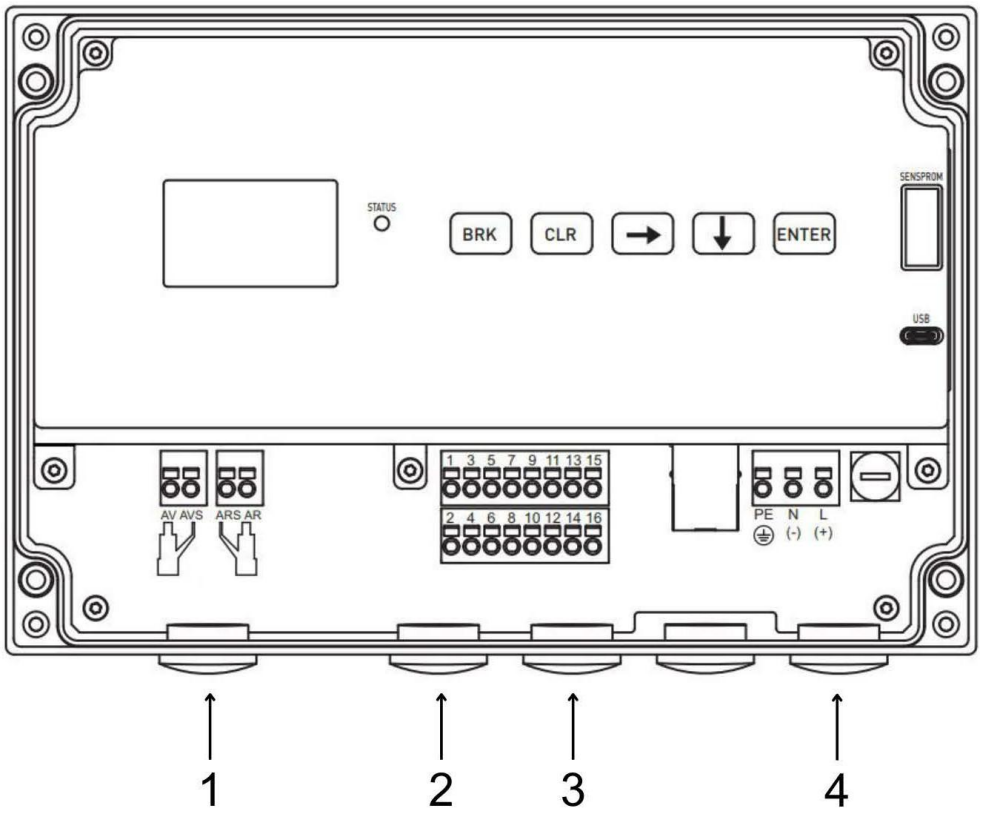
Electric shock

Touching energized system parts can cause immediate death or serious injury.



- Make sure that installation work is only carried out by authorized specialists.
- Before carrying out any work on the system, disconnect the power supply and check that no voltage is present.
- If an insulation is damaged, disconnect the power supply immediately and arrange for immediate repair.

5.5.1. Connecting the flow sensor



1 - sensor head connection
2 - puls 1: 9/10 (positive)
puls 2: 11/12 (negative)
3 - current output 13/14 4 until 20 mA
4 - power supply 24 VDC + grounding

Grounding must be carried out with a 0.75 - 2.5mm2 cable.

Output	ASDX-III Measurement electronics Pin	Function
Puls 1	9 (+)	Positive impulse output
	10 (-)	Grounding
Puls 2	11 (+)	Negative impulse output
	12 (-)	Grounding
Current output	13 (+)	Output
	14 (-)	Grounding

To connect any cable:

- Remove the blind plug for the connection.
- Open the cable gland of the cable. The compression part remains in the cap nut.
- Push the cable through the cap nut and the compression part.
- Screw the sealing ring side of the basic part into the housing of the measurement electronics.
- Insert the cable into the housing.
- Fix the cable gland to the terminals of the measurement electronics.

Sensor head cable: Dual coaxial cable with overall shielding

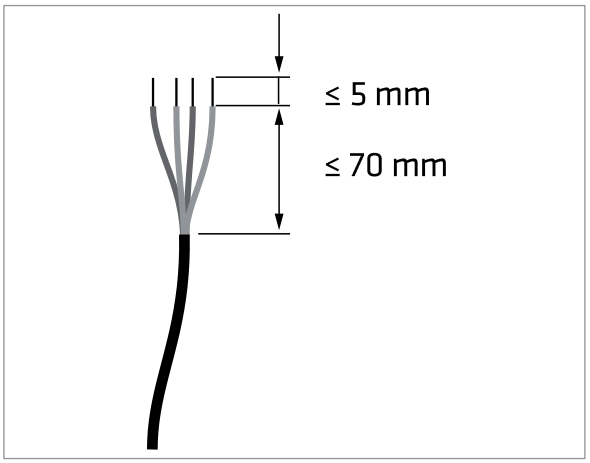
AV - White core wire of white coaxial cable AVS - Shielding of the white coaxial cable ARS - Shielding of the brown coaxial cable

AR - Brown core of brown coaxial cable overall shielding Overall shielding - Connected 360° into the cable gland

5.5.2. Connecting the CALEC® STIII Smart to the measurement electronics

For connecting the CALEC® STIII Smart, the cable must have the following properties:

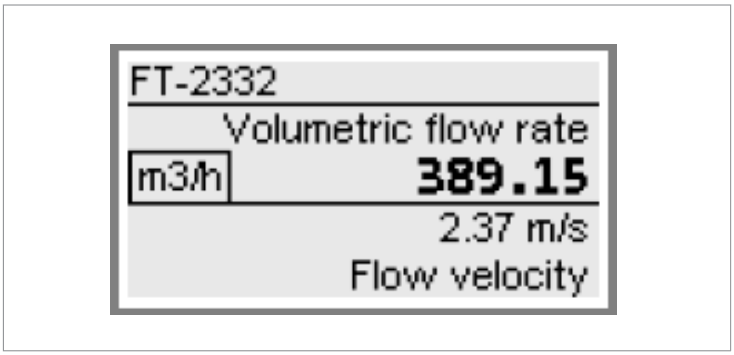
- Minimum cross section of each wire: 0.75 mm^2
- 1x4 wires or 2x2 wires
- Maximum length: 25 m
- Strip the connection cable as illustrated.



6. Display and menu structure

The flow sensor features a display. Meter values can be read in the following ways.

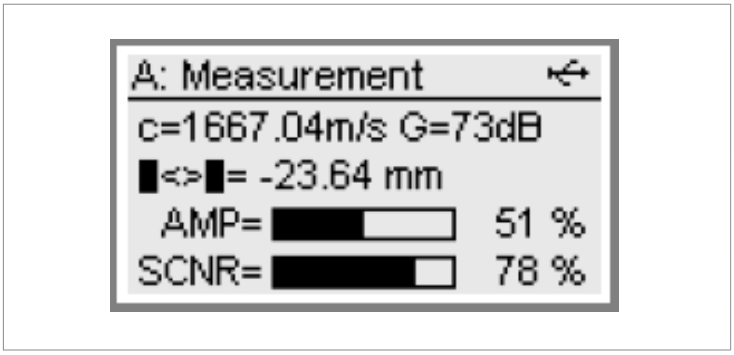
Default display of device in operation



To access diagnostics display

Press ENTER.

The diagnostics window is displayed.



The amplitude of the received signal is displayed by bar graph AMP.

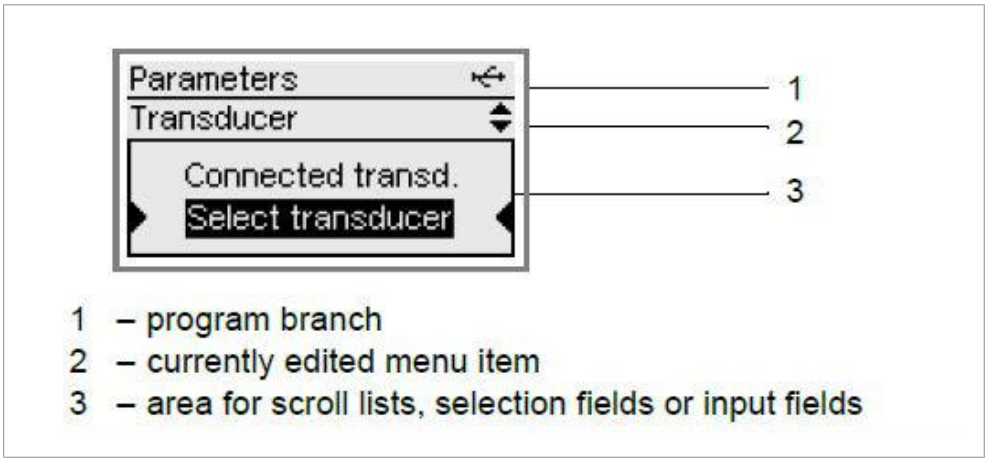
The bar graph SCNR shows the ratio of the useful signal and the correlated noise signal.

Recommended diagnostic limits

Good measurement	Measurement at limit	Measurement not possible
SCNR > 30 dB (> 50 %)	20 dB ≤ SCNR ≤ 30 dB (0 % < SCNR ≤ 50 %)	SCNR < 20 dB (= 0 %)
SNR > 15 dB	0 dB ≤ SNR ≤ 15 dB	SNR < 0 dB
GAIN < 98 dB	98 dB ≤ GAIN ≤ 113 dB	GAIN > 113 dB

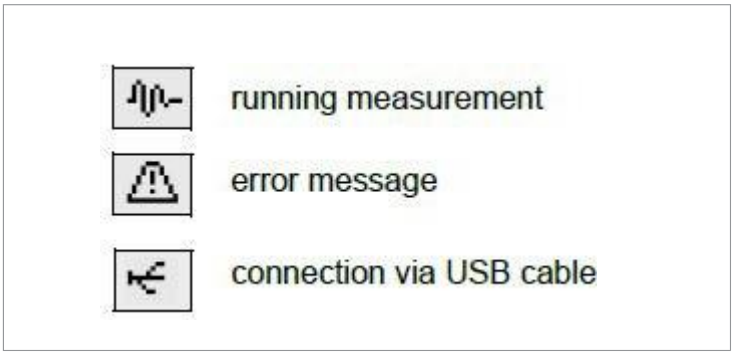
Display structure

Press BRK



Status indicators

The status indicators are shown on line 1.



Keyboard

The keyboard consists of the following keys: ENTER, BRK, CLR, → and ↓.

General functions

ENTER	Confirmation of selection or input
BRK	BRK during the installation of the device: *Short press*: Return to the previous menu item *Long press (several seconds)*: Return to the beginning of the program branch
BRK + C + ENTER	Reset: Press these 3 keys simultaneously to correct a malfunction. The reset has the same effect as a restart of the transmitter. Settings are not affected.

Navigation

→	Scroll to the right or up through a scroll list
↓	Scroll down through a scroll list
CLR	Scroll to the left through a scroll list

Input of numbers (valid for calibration mode without software)

→	Move the cursor to the right
↓	Scroll through the numbers above the cursor
CLR	*Short press*: Move the cursor to the left *Long press (several seconds)*: Reset the value to the previously stored one

Input of text (valid for calibration mode without software)

→	Move the cursor to the right
↓	Scroll through the numbers above the cursor
CLR	*Short press*: Move the cursor to the left *Long press (several seconds)*: Reset the value to the previously stored one

Menu structure

To access the menu, press BRK.

Outputs	Current output modes	Active / passive	Read mode
	Current I1		Off by default
	Digital output B1	Forward direction	Read mode
	Digital output B2	Reverse direction	Read mode
Storage	Data logger	Configuration Deleted Measured values Data logger info	N/A
	Totalizers		N/A
	Snap	Configuration Deleted Snaps Snap info	Available
	Event log		Available
Miscellaneous	System settings	Languages	Available for installator
		Display contrast	Available for installator
	Measurement		Read mode
	Units of measurements		Read mode
	Special settings		Read mode
	Dialogue/Menus		Read mode
	Param. Record memo		Read mode
	Librairies		Read mode
	Pipe diameter Min.		Read mode

7. Decommissioning / storage / disposal

7.1. Decommissioning

WARNING

High pressure



The pressure of the medium in the pipe can be higher than atmospheric pressure. Removing a flow sensor while under pressure can lead to serious injury.

- ▶ Ensure that the pressure in the pipe is equal to atmospheric pressure.

WARNING

High temperature



The temperature of the medium in the pipe can be at high temperature.

- ▶ Before any maniputation, ensure that the temperature in the pipe is equal to ambiant temperature.

- ▶ Empty the pipe at the installation position.
- ▶ Remove the flow sensor.

7.2. Storage

- ▶ Decommissioning according to chapter Decommissioning [▶p. 23].
- ▶ Select a suitable storage location.

7.3. Disposal

INTEGRA Metering products must be disposed of in accordance with applicable local regulations. Improper disposal can have harmful effects on the environment and health.

- ▶ Decommissioning according to chapter Decommissioning [▶p. 23].
- ▶ Disassemble the product, sort according to material and dispose of the materials in accordance with applicable local regulations.

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