

Single-Jet Dry Meter EWZ

ETK-EAM, ETW-EAM



Abb. Zifferblatt ETK-EAM



The electronic water meter of the EWZ product family is the newest Single-Jet Meter Generation with low-power electronic totalizer including digital LCD display and integrated OMS radio.

- Integrated radio, flexibly programmable (Walk-by/Drive-by)
- For direct integration into OMS compliant AMR remote readout systems (T1-Mode, C1-Mode)
- Longterm data logging (storage of 1 due date value, 15 monthly values and 480 daily values)
- Battery monitoring, Battery life 7 years (alternatively 13 years)
- Backflow and manipulation detection as well as notifications for leakage and pipe burst
- Inductive device interface for parameterization
- Starting flow rate from 1 L/h
- Temperature range up to 50 °C (cold) and up to 90 °C (warm)
- Nominal flow Q_3 2,5 up to Q_3 4, Nominal size DN 15 up to DN 20, Length 80 mm up to 130 mm (165 mm and 190 mm in preparation)
- MID measurement accuracy class (Q_3/Q_1) up to R500 horizontal and R315 vertical (standard R160H/V)
- Protection class IP68

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REMOTE READING OPTIONS AMR

Radio frequency 868 MHz wMBus according to EN13757, OMS compliance (Open Metering Standard, Generation 4)

Radio telegrams possible either in C1 or T1 mode, with 128-Bit AES encryption (Security Profile A, Mode 5), Radio power 14dBm

Radio parameters individually adjustable via inductive communication head and the free app "μline config" from the Microsoft online store

Gateway, Repeater and web portal available for providing data



REMOTE READING OPTIONS

Walk-by / Drive-by

Recording and storage of consumption data inside the radio module

Reading out of stored data via mobile radio device and own radio readout app from the Microsoft online store (in preparation)

Access to building no longer necessary



EWZ

The newest generation of intelligent water meters

Integrated radio for convenient remote reading

High accuracy and reliability

Multifunctional and flexible

Low-power electronic design



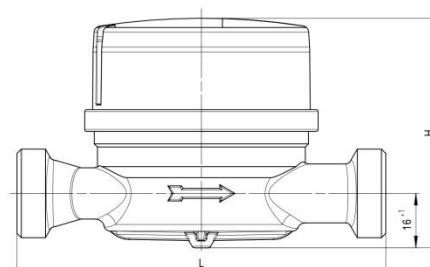
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TECNICAL DATA

Model

ETK-EAM = Cold water from +0,1 °C up to +30 °C / +50 °C
 ETW-EAM = Warm water from +0,1 °C up to +90 °C



Installation position	Length* L in mm	Height H in mm (ca.)	Nominal flow Q ₃ in m ³ /h	Nominal width DN in mm	Thread in inch	Starting flow** in l/h	Flow rate Q' at 1 bar pressure loss in l/h (ca.)	Weight in kg (ca.)
horizontal	80	69	2,5	15	G ¾ B	1-2	3300	0,4
	110	69	2,5	15	G ¾ B	1-2	3300	0,4
	115	69	2,5	13	G 7/8 - ¾ B	1-2	3300	0,4
	115	69	2,5	15	G ¾ B	1-2	3300	0,4
	115	69	4	20	G 1 B	1-2	5100	0,4
	130	69	2,5	15	G ¾ B	1-2	3300	0,6
	130	69	2,5	20	G 1 B	1-2	3300	0,6
	130	69	4	20	G 1 B	1-2	5100	0,6
	165***	69	2,5	15	G ¾ B	1-2	3300	0,7
	190***	69	4	20	G 1 B	1-2	5100	0,8

* Additional lengths available on request

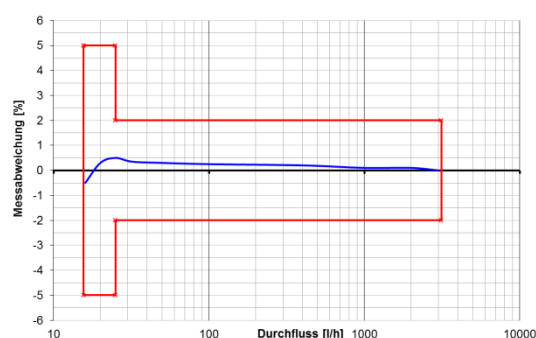
** typical values in horizontal installation position

*** in preparation

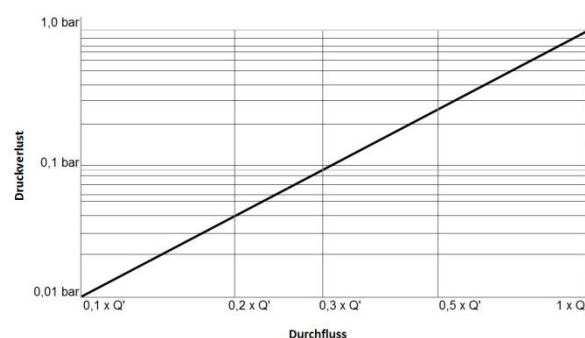
The meter does not require any upstream or downstream straight length (U0/D0).

Subject to errors and alterations.

Typical error curve Q₃ 2,5 R160H



Typical pressure loss graph



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TECNICAL DATA

Totalizer

Radio standard:	EN13757-4; wMBus according to OMS Generation 4 T1, C1 Mode, Security Profile A 128-Bit AES encryption (Mode 5)
Radio frequency:	868,95 MHz
Radio range/ radio power:	1,5 km in an open field 14 dBm
Battery:	1 lithium cell; 3,6 V Size ½ AA (working life about 7 years) Size 1 AA (working life about 13 years)
Interface:	NFC; 13,56 MHz; 4800 Baud
Housing:	359° rotatable totalizer

APPROVALS / CERTIFICATES / STANDARDS

- EU-Type Examination Certificate according to 2014/32/EU (MID)
- EU-Type Examination Certificate according to 2014/53/EU (RED)
- EU-Type Examination Certificate according to 2011/65/EU (RoHS)
- OIML R49
- EN 14154
- KTW / W270 (D)
- OMS compliance

ADDITIONAL OPTIONS

- Protection cover in blue (cold water) or red (warm water) → Fig. ①
- Individual labelling of totalizer and/or protection cover (on customer request)
- Individual customer serial number (max. 14 figures)



Fig. ①