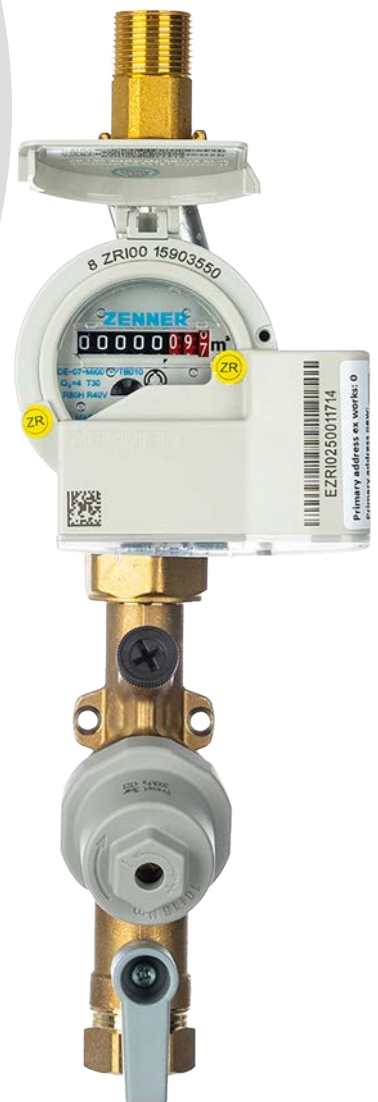


133-5011 & 5012

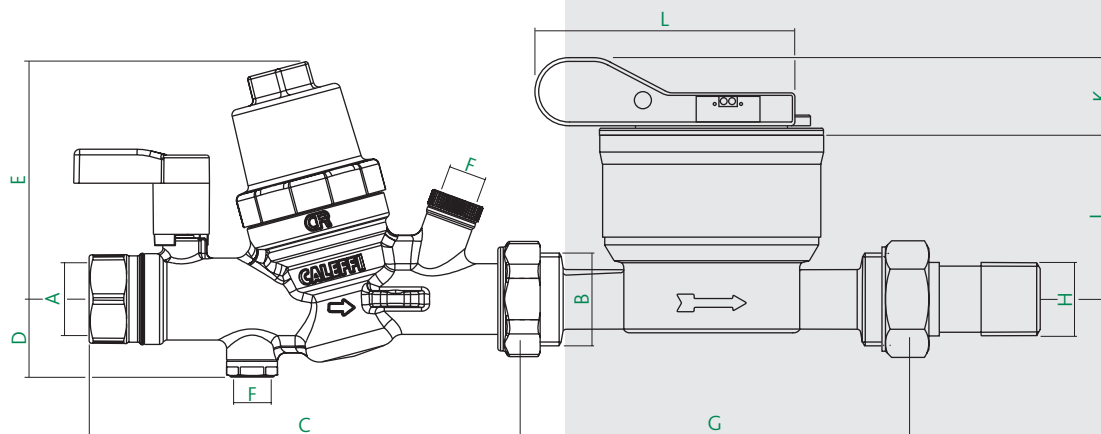
apartment control assembly



altecnic
CALEFFI group

133-5001 & 5002 apartment control assembly

Dimensions



Ref No	A	B	C	D	E	F	G	H	J	K	L	kg
133-5011	Rp $\frac{3}{4}$	G1	151.2	24.5	83.7	G $\frac{1}{4}$	130	G $\frac{3}{4}$	60	38.5	89	1.4
133-5012												

The Altecnic 133-5011 and 133-5012 apartment control assembly combines several functions into a monobloc body with a water meter MBus for use in multi-unit buildings.

Design

The Altecnic apartment control assembly consists of a ball isolating valve, pressure reducing valve, single check valve, port for a pressure gauge, test port, threaded inlet connection, swivel outlet connection and a water meter.

The pressure reducing valve assembly is a WRAS approved product (the water meter is not WRAS approved).

A bespoke moulded insulation shell to minimise heat loss or on cold water applications heat gain and a pressure gauge are available.

The pressure reducing valve is factory set at 3 bar but is adjustable between 1 to 5.5 bar.

The test port is suitable for use with a pressure gauge or for a temperature probe.

The Altecnic apartment control assembly is supplied with a water meter, see below.

Product Range

Ref No Description

133-5011	apartment control assembly c/w cold water meter MBus
133-5012	apartment control assembly c/w hot water meter MBus

Accessories

CBN539050	insulation shell
557010	pressure gauge 1-10 bar, $\frac{1}{4}$ BSP back fitting, 40 dial

Technical Specification -Pressure Reducing Valve Assembly

Max. pressure:	16 bar
Max. temperature:	80°C
Pressure adjustment range:	1 to 5.5 bar
Factory set pressure:	3 bar
Pressure gauge range:	0 to 10 bar
Strainer mesh size:	0.51 mm
Test ports:	G $\frac{1}{4}$

Construction Details

Component	Material	Grade	
Body	DZR		BS EN 12165 CW724R
Ball Valve			
Ball	DZR		BS EN 12165 CW724R
Ball seat	PTFE		
Stem	DZR		BS EN 12164 CW724R
Stem seals	EPDM		
Lever	Nylon		PA6G30
Pressure Reducing Valve			
Inner cover	Nylon		PA66GF30
Outer cover	Nylon		PA66GF30
Control stem	Stainless Steel		BS EN 10088-3
Cartridge	Polymer		PPSG40
Spring	Steel		BS EN 10270-1
Internal components	Polymer		PSU
Diaphragm	EPDM		
Seals	EPDM		
Strainer screen	Stainless steel		BS EN 10088-3

Check Valve

Designation	family E, type A
Minimum opening pressure	0.5 kPa
In accordance with	BS EN 13959
Cartridge	Polypropylene

Insulation

Material	EPP
Density	40 kg/m ³
Working temperature range	-5 to 80°C

133-5001 & 5002 apartment control assembly

Water Meters

Design

The Altecnic single jet dry dial water meters with protected magnetic coupling for hot and cold water applications offers a dependable and accurate reading of water consumption and is ideally suited for use in domestic premises and small commercial buildings.

With 8-digit register and modulator disc (≥ 1 l/pulse) for electronic, non-reactive scanning is the basis for remote readout via Mbus

The white dials with black numerals and red indicators makes reading easier, even when light conditions are poor.

Technical Specification

Single jet dry dial meter with protected magnetic coupling suitable for direct connection of the communication module with wireless Mbus radio interface.

355° rotating dial for easy reading in any position

Temperature range: **133-5011** 0.1 to 30°C
133-5012 30 to 90°C

Dial range: 0 to 100,000m³

MID approved according to European Directive 2004/22/CE (module B + D)

In compliance with: BS EN 14154
OIML R49/200

	Size		¾"
Q ₃	Continuous flow rate	m ³ /hr	4
Q _n	Comparable to permanent flow rate	m ³ /hr	2.5
Q ₄ ¹	Max. flow rate for short periods	m ³ /hr	5
Q ₂ ¹	Transitional flow rate	l/h	80H/160V
Q ₁ ¹	Min. flow rate	l/h	50H/100V
Q ₃ /Q ₁	Attainable measuring range	R	80H/40V
Q ₃ /Q ₁	Standard measuring range	R	80H/40V
	Start-up flow rate	l/h	<14
MAP	Operating pressure	bar	16
ΔP	Pressure loss class at Q ₃	bar	0.63
	Pulse value	l/pulse	1
²	Climatic conditions	°C	5 to 70

¹ The data refers to standard measuring range

² Condensation possible

Communication Module with wireless Mbus Radio Interface

Technical data radio module

Operating frequency	868 MHz
Transmission power	approx. 14dBm, 25 mW
Duration of transmission telegram	approx. 10-15 ms
Transmission interval	standard: 20s
Data transmission procedure	wireless Mbus (standard: C1 mode)
Encryption of radio protocols	yes, standard: encryption mode 5; encryption mode 7 possible
Error detection	CRC
Optical interface	yes
Energy supply	lithium battery
Battery life	10 years + reserve; for 322: up to 15 years
Battery status monitoring	yes
Display	no
Reverse flow detection	yes
Protection class	IP68
Ambient conditions	5°C to +55°C
Conformity	According to directive 2014/53/EU (RED)
Activation of radio in case of subsequent retrofitting	using opto head and MSS configuration software; illuminating >8s
Activation of radio for pre-installed module	illuminating >8s; autostart after flow of 30 l

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