



## Heat Cost Allocator

- Compliant with the German Regulation on cost allocation HKVO and Italian Standard UNI 10200; compliant with Standards DIN EN 834-1994 and EN 834-2010
- Optical interface (reading/set-up)
- 132 monthly and semi-monthly values memory
- Retrofittable remote sensor
- Optional Wireless M-Bus interface (EN 13757-4) suitable both for mobile (walk-by) and fixed reading (AMR) set at factory (automatic activation during installation)

## TECHNICAL SPECIFICATIONS

Device type	2-sensor device (adjustable measurement mode) 2-sensor mode or 1-sensor mode
Approval	HKVO, UNI 10200 DIN EN 834-1994 and EN 834-2010
Lifetime (standard)	11 years + 1 (wide range of Kc factors available)
Scale	Unit or product scale
Remote sensor	Retrofittable
Application	2-sensor mode: 35 °C up to 95 °C (with remote sensor up to 105 °C)
	1-sensor mode (in the event of tampering): 55 °C up to 95 °C (with remote sensor up to 105 °C)
Interface	Optical (M-Bus Protocol) – USB opto head required
Displayed values	Current consumption/due date/due date value
Billing date options	Yearly, variable (except 29.02) Monthly, variable (1 – 28)
Storage of monthly values	132 monthly and semi-monthly values
Measurement stop during summer months	May/June/July/August/September: freely selectable
Tamper protection	Break contact
Size	92 mm (height) x 38 mm (width) x 28 mm (depth)

## TECHNICAL SPECIFICATIONS – WIRELESS M-BUS INTERFACE

Telegrams	Short telegram compliant with OMS (AMR) (current consumption/due date/due date value/error code)		
	Long telegram* – walk-by reading (factory setting) (current consumption/15 monthly values/error code)		
Transmission power (max.)	10 dBm		
Frequency	868 MHz		
Modes (EN 13757-4)	S1; T1; C1		
Encryption	AES 128/Maddalena Master Key		
Wireless M-Bus interface	Set and disabled (activated automatically during installation)		
Billing date	31 May		
Transmission	Interval	2 – 240 min	(2 min)*
	Time/day	0 a.m. – 12 p.m.	(7 a.m. – 7 p.m.)*
	Day/week	Mon. – Sun.	(Mon. – Fri.)*
	Week/month	1 – 4	(1 – 4)*
	Month/year	Jan. – Dec.	(Jan. – Dec.)*
Reading system	Hardware	Arrow Collect and USB Wireless M-Bus receiver	
	Software	Reading: Arrow Mobile (for Windows) Set-up: Device Monitor (for Windows)	

\*Factory setting

## DIMENSIONS



Subject to technical change without prior notice.

 **maddalena**<sup>®</sup>  
www.maddalena.it