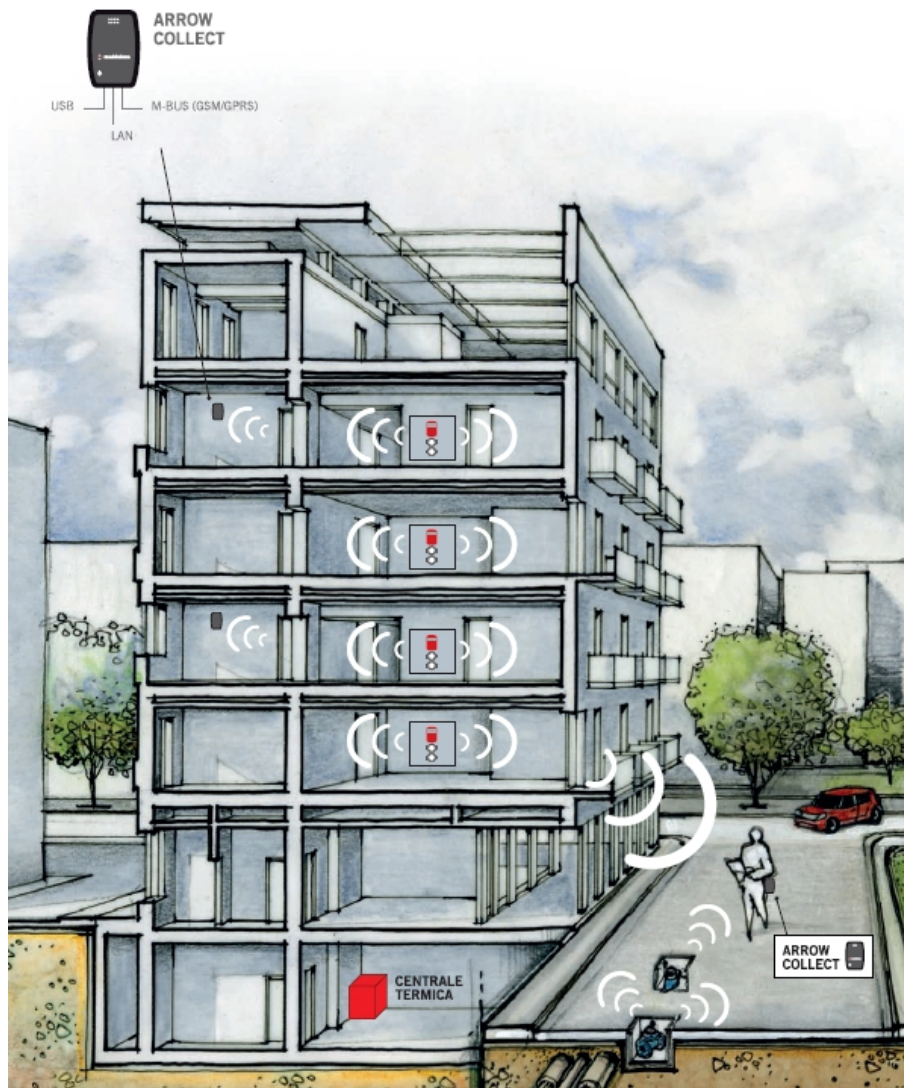


SISTEMI – CONFIGURAZIONI SUBMETERING SYSTEMS – SUBMETERING CONFIGURATIONS



SISTEMI SYSTEMS

EN 13757/4 **M-Bus** **OMS**

cms
CONTATORI MISURE E SERVIZI

**sistemi
systems**



**energia termica
thermal energy**



MICROCLIMA US
ultrasuoni
ultrasonic

2 IN impulsi
2 pulse IN



MICROCLIMA
getto unico
single jet



GRADUS
ripartitore
heat cost allocator

Wireless M-Bus

**uso domestico
residential use**
**grosse utenze
bulk meters**



CD SD PLUS
getto unico
single jet



FAW
radio / M-Bus



ARROW
getto unico
single jet



1. **Calorimetro microCLIMA radio**
microCLIMA Heat meter with radio interface



2. **Modulo radio compatto FAW**
FAW compact radio module



3. **Ricevitori radio**
Radio receivers
-

1. **Calorimetri microCLIMA: interfaccia radio integrata** **microCLIMA Heat Meters: integrated radio interface**



RADIO **868 MHz**, Wireless M-Bus (EN 13757-4)
(-5 dBm, 0 dBm, +9 dBm)

Modi trasmissivi / Transmission modes: **T1**, T2, S1, S2

Intervallo di trasmissione radio impostato (modificabile):

Default radio transmission interval (configurable):

2 min., 7:00-19:00, lunedì (moday) – venerdì (friday), 4/4, 12/12

Crittografia: AES 128 (impostata ma non attivata)

Encryption: AES 128 (setted but non activated)

Telegramma radio corto (valori correnti / in accordo OMS)

Short radio telegram (current values / according OMS)

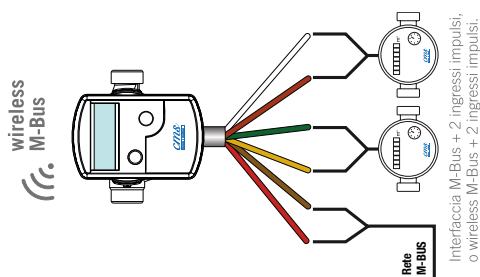
Telegramma lungo (valori correnti e storici) - Attivabile

Long telegram (current + hystorical data) - Activable

Durata minima batteria*: 7 anni (+3 in base al set-up radio)

Minimum battery lifetime*: 7 years (+3 depending on the radio set-up)

Calorimetri microCLIMA: interfaccia radio integrata microCLIMA Heat Meters: integrated radio interface



Radio + 2 ingressi impulsi (configurabili)
Disponibile su tutta la gamma microCLIMA
Radio + 2 pulse input (programmable)
Available on all the microCLIMA product range

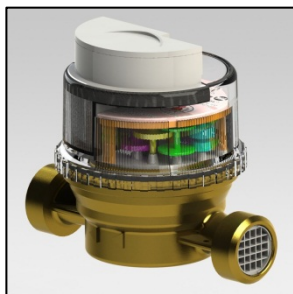


Attivazione radio tramite pulsante o interfaccia ottica
Radio activation by push button or optical interface



Testina ottica e software di set-up
Optical Head kit with set-up software

2. **Modulo radio FAW con sensore induttivo** **FAW radio module with inductive sensor**



RADIO **868 MHz**, Wireless M-Bus (EN 13757-4)
(-5 dBm, 0 dBm, +9 dBm)

Modi trasmissivi / Transmission modes: **T1**, S1,

Intervallo di trasmissione radio impostato (modificabile):

Default radio transmission interval (configurable):

2 min., 7:00-19:00, lunedì (moday) – venerdì (friday), 4/4, 12/12

Crittografia: AES 128 (impostata ma non attivata)

Encryption: AES 128 (setted but non activated)

Telegramma corto (valori correnti / in accordo OMS) - *Attivabile*

Short telegram (current values / according OMS) - *Activable*

Telegramma lungo (valori correnti e storici)

Long telegram (current + hystorical data)

Durata batteria: 12 anni

Battery lifetime: 12 years

Modulo radio FAW con sensore induttivo FAW radio module with inductive sensor



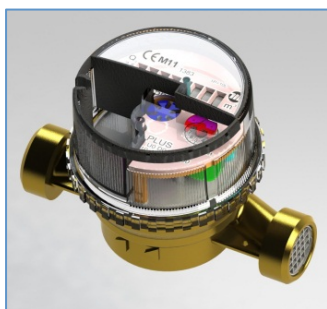
Modulo radio compatto installabile direttamente sul contatore
Compact radio module to be installed directly on the meter

Grado di protezione IP68
IP68 Protection class

Interfaccia ottica (per eventuali modifiche di configurazione)
Optical interface (for eventual set-up modifications)



Gestione flusso inverso
Flow direction management



Attivazione automatica della radio (bottone di installazione)
Automatic radio activation (installation button)

Allarme di manipolazione e frode magnetica
Manipulation and magnetic fraud alarm

Compatibile con il sistema modularis® (Qundis, Wheelre, WG, Sontex, ...)
Compatible with the modularis® system (Qundis, Wheelre, WG, Sontex, ...)

COLLETTORI DATI RADIO RADIO COLLECTORS

3. **Ricevitori radio** **Radio receivers**



Ricevitore radio USB – Lettura mobile
USB radio receiver – Mobile reading



Ricevitore radio Arrow Collect
Arrow Collect radio receiver

- Modalità mobile / Mobile mode



- Modalità fissa / Fixed mode



COLLETTORI DATI RADIO RADIO COLLECTORS



Sistema mobile di lettura: Ricevitore USB Mobile reading system: USB Receiver

Ricevitore radio USB – USB radio receiver

Wireless M-Bus 868 MHz (EN13757-4)

Modi trasmissivi supportati: T1, S1

Supported transmission modes: T1, S1

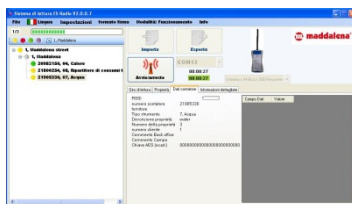


Alimentazione tramite USB

Power supply via USB

Limitazioni su nr. contatori gestibili: no

Limitation on the meters number: no



Necessario PC (Windows) con software mobile di lettura

Require PC (Windows) with mobile reading software

Sistema mobile di lettura: Arrow Collect (FW mobile)
Mobile reading system: Arrow Collect (mobile FW)



USB
Bluetooth

Ricevitore radio con interfaccia Bluetooth e USB
USB radio with Bluetooth and USB interface

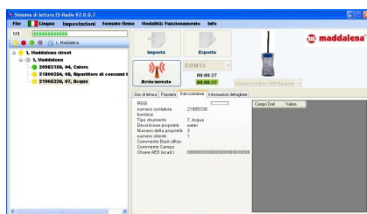
Wireless M-Bus 868 MHz (EN13757-4)

Modi trasmissivi supportati: T1
Supported transmission modes: T1



Alimentazione tramite: batteria interna al litio e USB
Power supply via: internal lithium battery and USB

Nessun set-up / Limitazioni su nr. contatori gestibili: no
No set-up needed / Limitation on the meters number: no



Modalità chiavetta USB per aggiornamento FW
USB key mode for FW upgrading

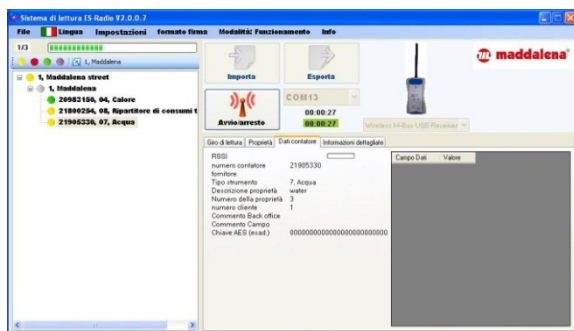
PC (Windows) con software mobile di lettura
PC (Windows) with mobile reading software

SOFTWARE ARROW MOBILE

ARROW MOBILE SOFTWARE

Arrow Mobile software

Arrow Mobile software



Impostazione lista periferiche: manuale o funzione scan
Meter list set-up: manual or scan function

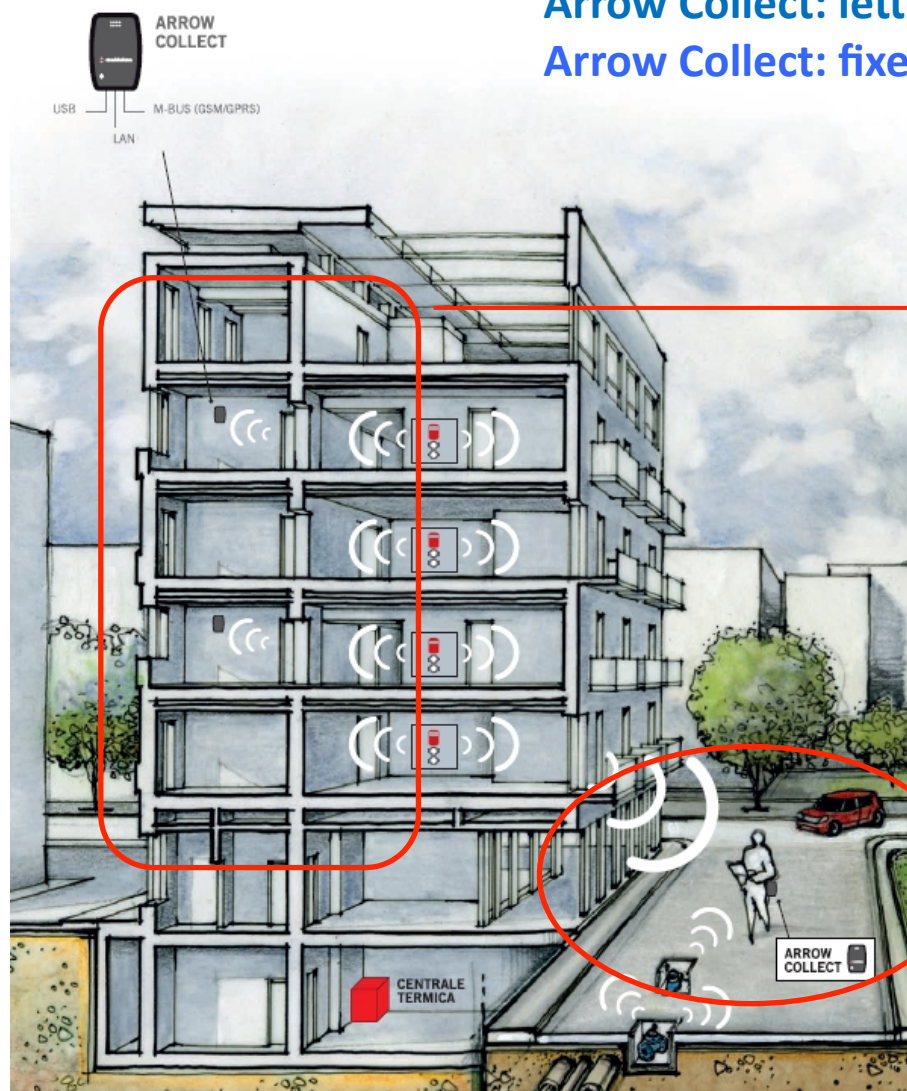
Gestione anagrafica delle installazioni
Installation tour management

Lettura al momento
Real time reading

Esportazione dei dati su file .csv
Export of data in .csv format

Compatibile con Wireless M-Bus meters (EN 13757-4)
Compatible with Wireless M-Bus meters (EN 13757-4)

Arrow Collect: lettura mobile o fissa
Arrow Collect: fixed or mobile reading



Modalità fissa
Fixed mode

Modalità mobile
Mobile mode

COLLETTORI DATI RADIO RADIO COLLECTORS

Sistema fisso di lettura: Arrow Collect (FW fisso) Fixed reading system: Arrow Collect (Fixed FW)



USB
LAN
M-Bus
Bluetooth

Ricevitore radio fisso
Fixed radio receiver

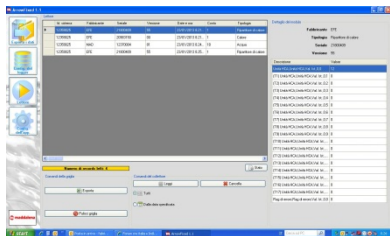
Memoria interna: 500 MB F-RAM (40.000 letture)
Internal memory: 500 MB F-RAM (40.000 readings)

Alimentazione tramite: 220V, USB e batteria interna (2 ore)
Power supply via: 220V, USB and internal battery (2 hours)



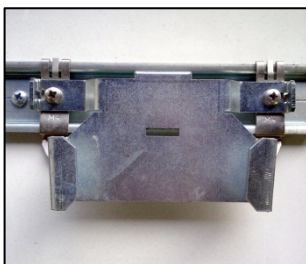
Nr. max contatori gestibili: 500 contatori
Max nr. of meters: 500 meters

PC (Windows) con software Arrow Fixed
PC (Windows) with Arrow Fixed software



Scarico dati: USB, Bluetooth, LAN, M-Bus (EN 13757)
Download by: USB, Bluetooth, LAN, M-Bus (EN 13757)

Arrow Collect: accessori installazione
Arrow Collect: installation accessories



Staffa di supporto per barra DIN
Support for DIN rail bar

1.ETRMD.0043 = Staffa per barra DIN + FW fisso
1.ETRMD.0043 = Support for DIN bar + fixed FW



Scatola per installazione a muro IP 67 con barra DIN,
staffa, presa per l'alimentazione e interruttore on/off
Wall mounting box IP67 with DIN rail, support, power
supply port and on/off switch

1.ETRMD.0060 = Kit scatola installazione muro + FW fisso
1.ETRMD.0060 = wall mounting box kit + fixed FW

SOFTWARE ARROW FIXED ARROW FIXED SOFTWARE

Sistema fisso di lettura: software Arrow Fixed Fixed reading system: Arrow Fixed software

Impostazione lista periferiche: manuale o funzione scan
Meter list set-up: manual or scan function

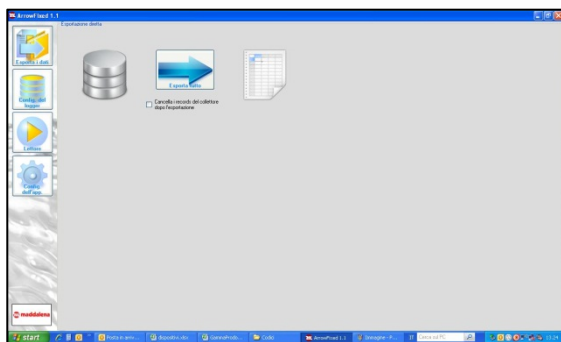
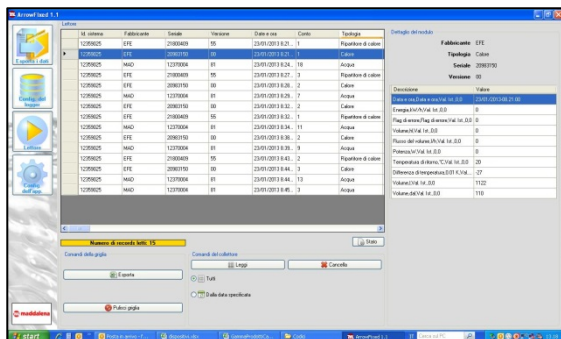
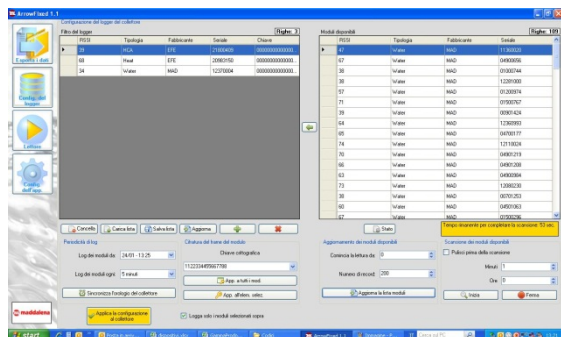
Impostazione periodicità lettura
Periodicity of reading set-up

Modalità Datalogger (40.000 letture / 500 contatori max)
Datalogger function (40.000 / max 500 meters)

Scarico dati via: USB, Bluetooth (100 m) o LAN
Download of the data via: USB, Bluetooth (100 m) or LAN

Esportazione dei dati su file .csv
Export of data in .csv format

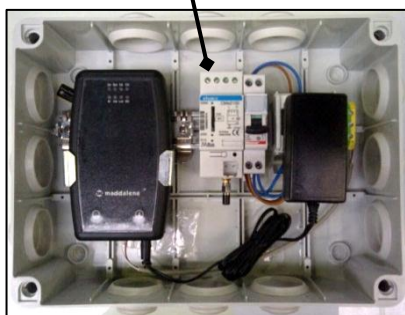
Compatibile con Wireless M-Bus meters (EN 13757-4)
Compatible with Wireless M-Bus meters (EN 13757-4)



COLLETTORI DATI RADIO RADIO COLLECTORS



Master
GSM/GPRS
CMe2100



Sistema fisso di lettura: Arrow Collect e uscita M-Bus Fixed reading system: Arrow Collect and M-Bus out

Arrow Collect: uscita M-Bus (EN 13757)

Arrow Collect: M-Bus out (EN 13757)

Master GSM/GPRS CMe2100, massimo 8 Arrow Collect

Master GSM/GPRS CMe2100, max 8 Arrow Collect

Scatola per installazione a muro IP 55 con barra DIN, staffa, presa per l'alimentazione e interruttore on/off

Wall mounting box IP55 with DIN rail, support, power supply port and on/off switch

Trasmissione diretta dei dati di lettura via GSM/GPRS
attraverso protocollo FTP, http o e-mail

Direct transmission of the data via GSM/GPRS through FTP,
http or e-mail

