

Installation and user manual

---

**OMNICON Connect  
Multi-Utility Controller**



## Quick guide

---

### Installation

- A** OMNICON Connect Multi-Utility Controller (MUC) is connected to the supply voltage on terminals 3 and 4.
  
- B** When the diode on the OMNICON Connect MUC module emits light, the module is ready for use.

## Contents

---

Description	3
Mounting	5
Error detection help	7
Ordering of MUC	7
Technical data	8

# 1 Description

---

## 1.1 Description of OMNICON Connect MUC

- Stand-alone MUC for OMNIA
- Wireless reading of water, heat, cooling and gas meters
- Plug-and-play concept without local configuration
- Compact installation where the MUC module is installed in OMNICON Connect (which is a one-phase OMNIPOWER meter with blind-off cap)

OMNICON Connect MUC is available in two variants:

- OMNICON Connect MUC for RF and
- OMNICON Connect MUC for P2P

OMNICON Connect MUC for RF consists of a one-phase electricity meter + OMNICON MUC for RF.

OMNICON Connect MUC for P2P consists of a one-phase electricity meter + OMNICON MUC for P2P + OMNICON 2G Modem.

## 1.2 Application

OMNICON Connect MUC can wirelessly collect data from up to 24 nearby water and energy meters.

The data collection takes place via Wireless M-Bus, and the communication with the central system depends on the selected MUC solution.

Meter data is saved in the internal data logger of the OMNICON MUC module and can be read via the central system. Data is logged according to predefined profiles that are adapted to the various meter types, and therefore, no additional configuration is required at the time of installation.

## 1.3 Preconditions

Note that OMNICON Connect MUC can read the following meters with Wireless M-Bus modules: MULTICAL® 21, MULTICAL® 302, MULTICAL® 402, MULTICAL® 61, MULTICAL® 62, MULTICAL® 601, MULTICAL® 602, MULTICAL® 801, flowIQ® 3100.

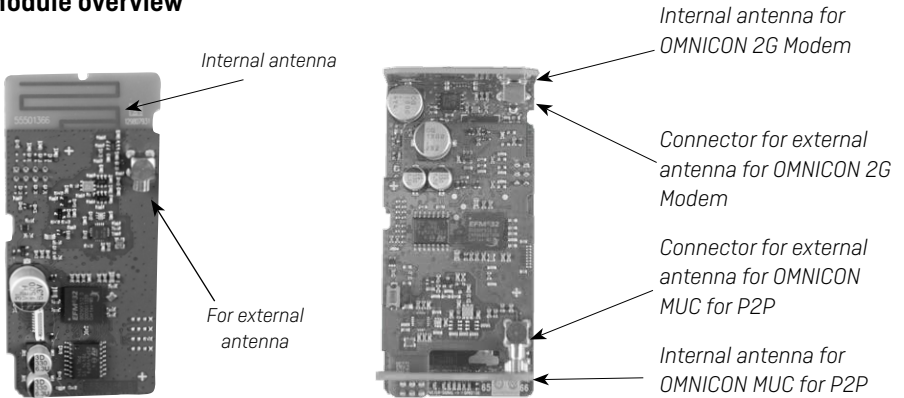
### Wireless M-Bus:

Mode C1, 868 MHz.

# 1 Description

---

## 1.4 Module overview



**6850079** OMNICON MUC for RF    **6845008** OMNICON MUC for P2P mounted on top  
**6850053** OMNICON 2G Modem

The OMNICON Multi-Utility Controller modules are mounted in the module area of OMNICON Connect.



## 2 Mounting

---

**1** OMNICON Connect MUC must only be connected to the supply voltage.

**2** Retrofitting/replacement of module:

Mount the OMNICON MUC module in OMNICON Connect in the following way:

- A** Dismount the cover of the meter.
- B** Insert the OMNICON Multi-Utility Controller for RF in the meter (please check that the eight module pins are all plugged in).  
Place the OMNICON Multi-Utility Controller for P2P on the OMNICON 2G modem in the meter (please check that the eight module pins are all plugged in).
- C** When the diode on the MUC module emits light, the module is ready for use.
- D** Scan or write down the information which the central system uses for pairing OMNICON Connect MUC with the meters which it is to read.

This information typically includes:

- The serial number of OMNICON Connect MUC.
- The address or the installation number of the electricity meter.
- The meter number of the flow meters which OMNICON Connect MUC is to read.

The installer must write down or scan this information when he has installed the OMNICON Connect MUC. The pairing of the units is subsequently carried out from the central system on the basis of this information (in the central system, this information is called "usage points") – it is not a task of the installer.

At installation, a MULTITERM Pro Wireless M-Bus hand-held terminal can be used to check the signal conditions and to see which meters are within reach.

If the module does not indicate normal operating conditions, see chapter 3 on page 7.

- E** Mount and seal the cover of OMNICON Connect.

## 2 Mounting

---

### 2.1 Antenna

The MUC module has an integrated antenna, see paragraph 1.4, page 4, which in most cases is sufficient to cover a regular household.

In the cases where OMNICON Connect MUC is installed in metal cabinets, an external antenna must be connected.

Connect the external antenna to the connector on the module. Be careful to hear a "click" to ensure that the two connectors are connected correctly. MUC for P2P is equipped with an antenna which must be removed first.

It is not allowed to use any tools for mounting the antenna connector.

Place the antenna cable inside the plastic frame of the module, and lead the cable out through the cable channel at the bottom of the electricity meter.

If it is required to extend the range, it is possible to use a Radio Link Repeater (order No. 6697041), which in principle is a "wireless antenna". This repeater must be paired with the MUC module by means of a MULTITERM Pro Wireless M-Bus hand-held terminal. Note that only the repeater with ordering number 6697041 works together with Multi-Utility Controller.

### 3 Error detection help

---

The light emitting diode turns off automatically after 10 minutes.

The light emitting diode on the OMNICON Multi-Utility Controller does not emit light.

The diode emits light when the module is ready for use, and when the communication between the meter and the module is tested.

If the diode does not emit light, check the following:

- A** Is the meter powered?
- B** Is the module correctly mounted, i.e. are all 8 module pins plugged in?
- C** Is it an older meter [see paragraph 1.3, page 3]?

### 4 Ordering of MUC

---

6850079 OMNICON Connect with the possibility of selecting MUC type.

#### 4.1 Ancillary products

6697042 MULTITERM Pro Wireless M-Bus hand-held terminal  
 6697125 Installation Tool, software plug-in for MULTITERM Pro  
 6697041 Radio Link Repeater  
 6699448 Mini-Triangle antenna incl. 2.5 m cable

## 5 Technical data

---

OMNICON Connect MUC for RF uses approx.	3.09 kWh/year
OMNICON Connect MUC for P2P uses approx.	6.11 kWh/year
OMNIPower 1-phase	0.70 kWh/year
OMNICON MUC	2.35 kWh/year
OMNICON 2G Modem	3.02 kWh/year