

# GETTING STARTED

## MULTITERM Pro wM-Bus



For further information, see [www.kamstrup.com](http://www.kamstrup.com)

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1 2 3 4 5 6 7

### Read from route

User1 - 18.08.2011 10:29  
 Kamstrup | MULTITERM Pro

- 1: Read from route
- 2: Manual reading
- 3: Search
- 4: Receive routes
- 5: Send data
- 6: Configure

435 meters in 3 route(s).  
 24 meters done.  
 3 ad hoc meters.

Select Quit

Start a reading with "Read from route".



User1 - 25.08.2011 14:13

Select route:

Stilling 1	65
Stilling 2	14
Stilling 3	332

24/435 - 6%


Number of completed routes : 0/3  
 Meters with info code : 0

\* Showing all meters (T)  
 \* Jump to current street, disabled (J)

Start reading Back

Create the route in PcBase III. You can create as many routes as you wish.

Select a route, and press "Start reading".



User1 - 25.08.2011 14:13

Stilling 2 streets:

Falkevej	1
Murseglervej	0
Nattergalevej	0
Prins Chr. Vænget	11
Rosenkjær	0
Slåenvænget	1
Ternevej	0
Vagtøvej	0

24/38 - 63%

Number of completed streets : 5/9  
 Meters with info code : 0

\* Showing all meters (T)  
 \* Jump to current street, disabled (J)

Start reading Back

You arranged the order when you created the route in PcBase III.

Street names are displayed with the number of meters that have not been read.

In the status field, the number of completed streets/total number of streets is displayed.

User1 - 25.08.2011 14:14

Reading route: Stilling 2

Prins Chr. Vænget 145
Prins Chr. Vænget 147
Prins Chr. Vænget 149
Prins Chr. Vænget 151
Prins Chr. Vænget 153
Prins Chr. Vænget 155
Prins Chr. Vænget 159
Prins Chr. Vænget 161

0/11 - 0%

Meter number : 60102995  
 Name :  
 Address : Prins Chr. Vænget 151  
 Note :  
 Meter type : MULTICAL 402  
 Format number : 34419

Stop reading Back

For each street name, address details are displayed as well as indications of whether or not the meter has been read.

In the status field, read data are displayed for each meter.

Press "D" to see reading data.

2 3 4 5 6 7

### Manual reading

User1 - 22.08.2011 09:08  
 Kamstrup | MULTITERM Pro

- 1: Read from route
- 2: Manual reading
- 3: Search
- 4: Receive routes
- 5: Send data
- 6: Configure

435 meters in 3 route(s).  
 24 meters done.  
 4 ad hoc meters.

Select Quit

Here, you can choose "Manual reading".

User1 - 22.08.2011 09:08

Select reading method

1. wM-Bus
2. Optical
3. Manual
4. View ad hoc meters
5. View log readings

Select Back

"wM-Bus"  
 Choose between manual reading of a water meter or a heat meter.

"Optical"  
 Using an optical eye, all parameters can be read, including the logged values.

"Manual"  
 Read the display, and enter the read values in the hand-held terminal.

User1 - 19.08.2011 08:22

Press Enter to change state

Select: (A) All, (I) Invert, (N) None

Index  
 Time stamp  
 Date  
 E1 Heat energy(MWh)

Confirm Cancel

"View ad hoc meters"  
 Displays read meters that have not been added to the routes of the hand-held terminal in advance.

"View log readings"  
 View the logged values under "Optical".



3 4 5 6 7

### Search


User1 - 18.08.2011 13:57  
 Kamstrup | MULTITERM Pro

- 1: Read from route
- 2: Manual reading
- 3: Search
- 4: Receive routes
- 5: Send data
- 6: Configure

435 meters in 3 route(s).  
 24 meters done.  
 3 ad hoc meters.

Select Quit

Here, you can search freely in loaded routes.



User1 - 18.08.2011 13:58

Search

Select search area:

Address

Address

Meter ID  
 Meter type  
 Event code  
 InfoCode  
 Type of reading  
 Any text

Search Back

Search freely in the displayed options.

User1 - 31.08.2011 12:22

Search

Select search area:

Address

Search string:  
 natterga

Search Back

Search in all loaded routes.

User1 - 31.08.2011 12:23

Search

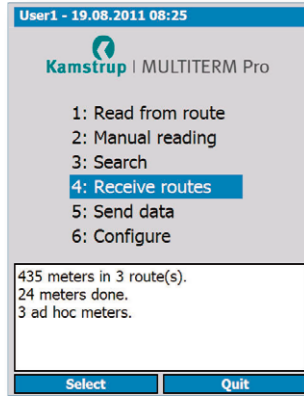
- Nattergalevej 1
- Nattergalevej 17
- Nattergalevej 19
- Nattergalevej 20
- Nattergalevej 22
- Nattergalevej 23 B
- Nattergalevej 5
- Nattergalevej 8

Meter number : 60102843  
 Meter reader : User1  
 Time : 2011-08-03T13:17:58  
 E1 Varmeenergi : 380 kWh  
 V1 Volumen : 19,02 m3

Back

The search result is displayed for all available routes on the hand-held terminal.

Receive routes

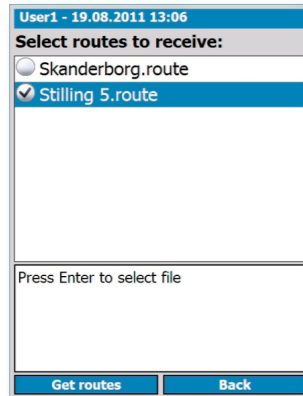


It is easy to load routes from your PC.



A route is created and stored on the PC via PcBase III.

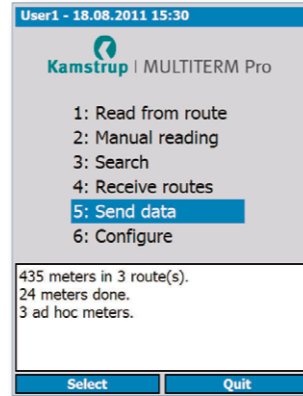
Select the required routes, and press "Get routes".



Route example



Send data



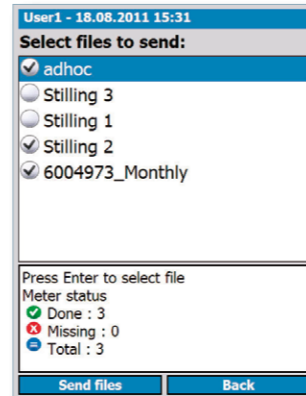
When data have been collected, they are sent to the PC for further processing.



Select the completed routes you wish to send, and press "Send files".

PcTermPro III will then load the data.

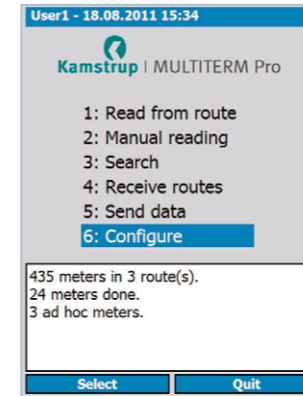
Subsequently, the loaded data can be seen in PcBase III and from there exported to e.g. the billing system.



Workflow



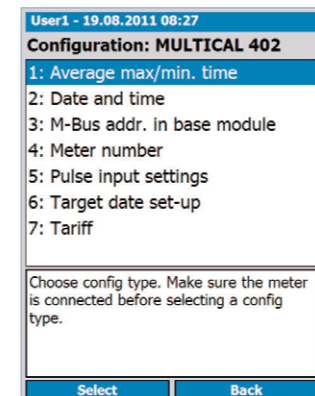
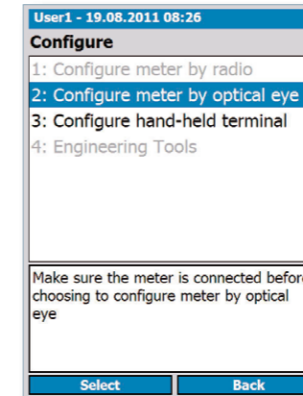
Configure



Here, you can find the toolbox.

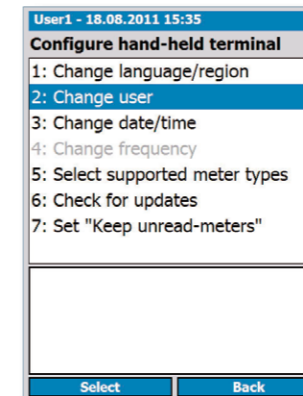


You can choose between configuration of a meter via optical eye and configuration of the hand-held terminal.

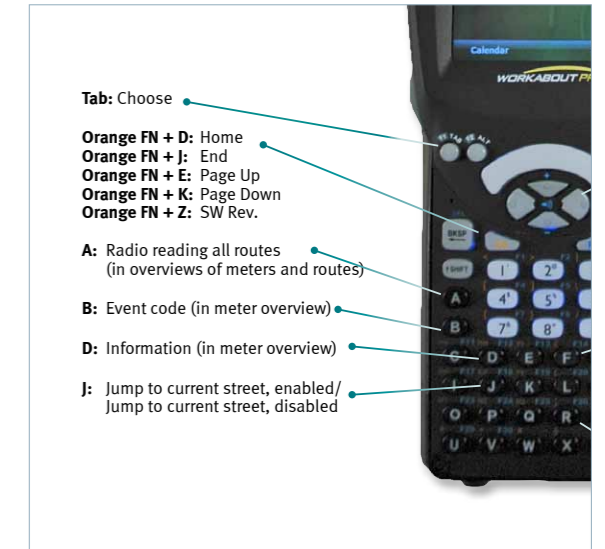


If you use an optical eye, the displayed options are available.

Under "Configure hand-held terminal", the displayed options are available.



Keyboard overview



Tab: Choose

- Orange FN + D: Home
- Orange FN + J: End
- Orange FN + E: Page Up
- Orange FN + K: Page Down
- Orange FN + Z: SW Rev.

A: Radio reading all routes (in overviews of meters and routes)

B: Event code (in meter overview)

D: Information (in meter overview)

J: Jump to current street, enabled/ Jump to current street, disabled



ESC: Back/Pause in radio reading

Arrows: Navigate

ENTER: Switch on/Execute

Blue FN + ENTER: Switch off  
Blue FN + ENTER (5 secs.): Restart the hand-held terminal  
Blue FN + BKSP: Delete routes and templates

F: Status change (read/not read in meter overview)

M: Meter options

T: Showing all meters/Showing missing meters

S: Search function

R: Radio reading single route (in meter overview)

