

MULTICAL® Compact - Modem

Remote read-out of MULTICAL® Compact energy meters

Simple integration in MULTICAL® Compact

Connects to standard telephone socket

Supplied by means of telephone wire

Programmable target date

Programmable call-back

Forced dial-back facility

Monitors MULTICAL® Compact info codes



Application

Remote data acquisition from MULTICAL® Compact by means of this modem is both economic and convenient. Additionally, data is always 100% correct.

The modem is a plug-in module which simply slots into place, forming an integral part of MULTICAL® Compact. The modem is connected to the consumer's telephone line.

Without disturbing the consumer the modem automatically reads the MULTICAL® Compact data, calls the heat supplier and transmits the data

The call usually takes about 30 seconds.

Once the modem has been installed in MULTICAL® Compact the fitter will activate a call-up. The modem will then call the heat supplier/power station etc. using the preprogrammed telephone number. The unit is identified and registered and the target date for the next reading and call-up is downloaded into the modem.

When the target date is reached the modem reads MULTICAL® Compact data, calls the heat supplier and transmits the data. Once again a new target date is downloaded and the whole procedure is repeated.

If necessary, the consumer can activate a call to the heat supplier, e.g. when moving to a new address, by pressing the key on the front of MULTICAL® Compact. MULTICAL® Compact will display "Call" and the modem will automatically call and transmit data to the heat supplier.



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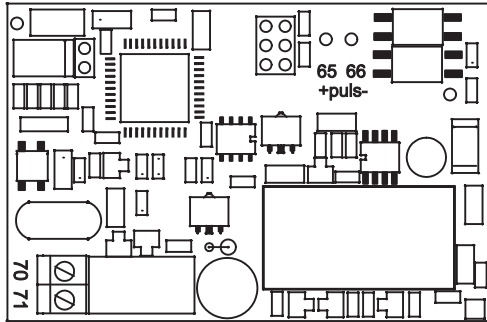
Accessible Data

The following MULTICAL® Compact data can be read by the modem.

Customer reference (ID) number, TAR2, TL2, TAR3, TL3, prog. no., config. no., date, energy consumption, m³, hour counter, T_{Forward}, T_{Return}, Δt, power, flow, power/flow peak, information code, power/flow peak*, version no. and reason for call.

* Most recent full month.

Connection Diagram



Connect the telephone to terminals 70 and 71.

Terminals 65 and 66 are not used.

Modem for MULTICAL® Compact

Technical Data

ELECTRICAL DATA

Supply:	Via telephone net
Supply voltage:	Minimum 24 VDC
Battery type:	Lithium battery
Storage duration @ 20°C:	3 months
Contact frequency:	Max. 1 call daily. Though short term every five minutes
Call up type:	DTMF or pulse ¹⁾
Transmission type:	DTMF or pulse
Typical call duration:	about 30 sec.
Telephone number:	2 numbers, max. 12 digits each

¹⁾Kamstrup recommends DTMF where possible.

MECHANICAL DATA

Dimensions, BxHxD:	42 x 64 mm
Ambient temperature:	0..40°C
Fitting:	Integrated in MULTICAL® Compact

APPROVAL

T-mark:	R&TTE
CE mark:	Complies with requirements pertaining to MULTICAL® Compact

The modem can be programmed to call via a PABX switchboard, where 0 or 9 is keyed in first to engage an outside line.

The switchboard must comply with the modem's minimum requirements in respect to supply voltage.

Order Specification

Description	Type No.
Modem for MULTICAL® Compact	66-0T-000-319
Windows 95/98 software for basis station	S7520-002

When ordering this software, please describe the computer which is to be used by the basis station.

Authorized Distributor

Please contact Kamstrup A/S for information about your nearest distributor.