# Manual

# DKA1, DMMK

# Digital Weatherdisplays for Reinhardt Weather Stations and Sensors

# REINHARDT System- und Messelectronic GmbH

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DKA1



# **DMMK**

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### 1.1 DKA1

The DKA1 displays the measured values of our weather stations series MWS 5(M), MWS 9-5, MWS 55 / 88(-2) / 10 and sensors series 1(M) und 55 such as time, date, temperature, humidity, pressure, windspeed, winddirection, precipitation, global radiation and 2 additional sensors (standard voltage in mV)

# 1.1.1 Contents of shipment

Shipment of DKA1 includes:

1 DKA1

1 cable with 7-pole plug for DKA1 and 9-pole SUB-D plug for serial port of PC (length 1.5m)

1 manual as PDF-file on USB-stick.

# 1.1.2 Safety instructions

DKA1 can only be used to display weather data of Reinhardt-weather stations.

The instrument must not be placed within reach of children and pets.

### 1.1.3 Operation conditions

**Ambient temperature** while operating DKA1 must not exceed +10°C and +35°C. The temperature during transport must be within 0°C and +50°C.

When water has condensed in the instrument, DKA1 has to be acclimatized at least 2 hours before operating it.

DKA1 is designed for operation in **clean, dry environment**. It must not be operated outside or in dusty or wet environment!

While operating DKA1, humidity must be within 20% and 70% relative humidity.

The supply voltage must be within 8VDC and 20VDC.

### 1.1.4 In case of complaints

In case of complaint please enclose a paper with error description and your telephone number or email address, when you send the DKA1 back to our company.

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# 1.2 Commissioning of DKA1

Commissioning is easy:

Place the DKA1 on a solid surface (table, i.e.). Connect the cable with the power-supply to socket "Data Connection Data PC" and, if necessary, the 9-way SUB-D socket to a COM-port of your PC. (The circular connectors and the western Bell connectors are equivalent.)

Connect the power-supply to a power outlet 230VAC / 50Hz.

The DKA1 performs a short system diagnose and shows 4 minus signs. This means that no weather data are received yet.

Now you connect the cable for the weather station to the "Data WS" socket of DKA1 and finally you connect the cable to your weather station or sensor. The weather station or sensor is supplied by the same cable as DKA1.

 $(Only\ some\ special\ versions\ of\ DKA1\ have\ got\ their\ own\ power\ supply)$ 

### NB

Please take care that you remove the plug from the MWS9-5 / 10 weather station, when no power supply is applied, for otherwise the internal backup batteries (lithium cells 2x3V - not rechargable) discharge and cause errors.

As soon as the first set of data is sent, DKA 1 displays all received weather data in a continuous flow.

In order to set the time correctly, you have to start the PC-software. The clock of the weather station is set to your computer clock.

If your weather station has a GPS-receiver, the clock is set automatically soon after operating power is applied.

### 1.2.1 Setting the Altitude by PC

By default, our weather stations give out the absolute pressure (altitude is set to 0 m). If you want to display the barometric pressure you may set the weather station to the correct altitude by a terminal software (hyperterminal.exe i.e.). Send the command !Oxxxx followed by carriage return and line feed (<CR><LF>) with xxxx for the altitude in meters.

### NB

Please note, that the weather station is now already set to barometric pressure. You must not set the altitude in the software any other time, for the software would then display the wrong pressure. In this case you must set the altitude in the software to 0 meters.

### 1.2.2 Setting the Time Zone by PC

For setting the time zone (Zeitzone), you use a terminal software to send the command !ZZxx followed by Carriage Return and Line Feed (CR LF) to the weather station, where xx is the deviation of your time from the UTC-time in hours. This only makes sense, if a GPS-receiver is connected!!

Altitude and time zone can also be set directly on the display, if a weather station is connected (See next page).

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### 1.3 Connections of DKA1

Below you see the rear of DKA1:

The operation elements Altitude and Zeitzone (timezone) are used to set the real altitude and the time zone at DKA1 itself. with delay you can set the dwell time of the displayed values.

Γ	DKA 1	Dauer /	Delay	Det	- MC	
	Reinhardt System- und Messelectronic Gm	bH o		Dai	a WS	0
l	Bergstrasse 33					
	86911 Diessen-Obermühlhausen Tel. 0049 - (0)8196 - 934100, Fax 0049 - (0)8196 - 7005 email: info@reinhardt-testsystem.de			Dat	a PC	0
l	www.reinhardt-testsystem.de			Data PC	Data '	WS
l	Caution!	-	+			
	Only for indoor use!	0	0			
l		altitude	timezone			
l						

### 1.3.1 Setting the Altitude at DKA1

To set the altitude, insert a thin long round object (e.g. screwdriver) into the Altitude-hole and press the switch until "HIGH" is displayed and the display shows the set local altitude in meters. With + and - you can now set the local altitude to its correct value. About 10 seconds later, the local altitude is transmitted to the weather station and the display starts its normal mode.

### 1.3.2 Setting of Time Zone at DKA1

For setting the time zone, you press ZEITZONE until "Cloc" appears on the display. Then you proceed as when setting the altitude.

The time zone can be set between +12 and -12 hours with 0 standing for UTC-time (Greenwich) and +2 e.g. for CEST-time (Central European Summer Time), which is 2 hours ahead of the UTC-time.

### NOTE

Setting the time zone only makes sense if a GPS-receiver is connected. Please note that the weather station clock is set back to 0:00 o'clock on 01.01.00 and after a short time is only set by the GPS-receiver.

With a connected PC, you can use any terminal-software to do these settings (see above).

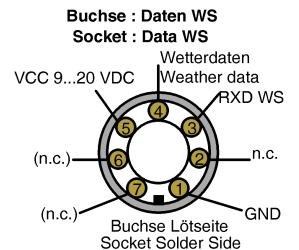
The two data connections (Data WS and Data PC) are built-in twice, once as a 5-way circular connector and as a Western Bell socket. Both are wired in parallel; you connect the weather station and optionally a PC.

The data of the weather station are sent to DKA1 and with a PC connected, handed on to the PC. The data of the PC are also passed through DKA1 and are transmitted to the weather station for controlling.

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### 1.3.3 Connection of 7-pole sockets

Connection of 5-pole and 7-pole sockets (Rear view !!):



Buchse: Daten PC
Socket: Data PC
Wetterdaten
Weather data

(n.c.)

Buchse Lötseite
Socket Solder Side



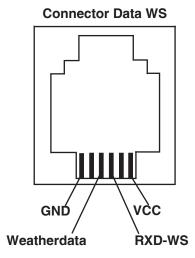
Connections GND, VCC and WETTERDATEN are wired directly in parallel. The data at the TXD-PC connection of socket "Daten PC" are processed in DKA1 and are put out as RXD-WS at the "Daten WS" socket.

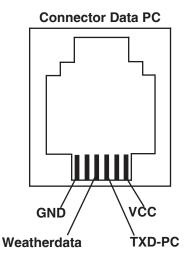
Therefore never mix up the sockets!!

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### 1.3.4 Connection of western sockets

Connection of 6-pole western-sockets (Front view !!):







Connections GND, VCC and WETTERDATEN are wired directly in parallel. The data at the TXD-PC connection of socket "Daten PC" are processed in DKA1 and are put out as RXD-WS at the "Daten WS" socket.

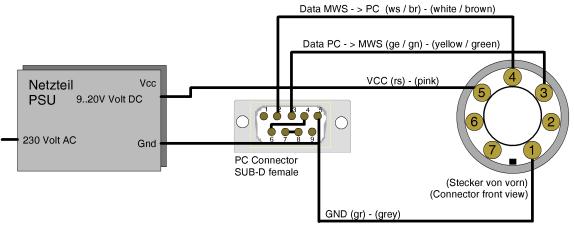
This is why the sockets must never be mixed up!!

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### 1.3.5 Standard cable 7-pole with power supply for DKA1

This cable is used to connect a power supply to DKA1 DATA\_PC socket with 7-pole connector. The weather station is connected by a 1:1 cable without power supply to DKA 1 DATA\_WS socket.

# Standardkabel für DKA1 mit Spannungsversorgung, 7-pol. RS232 Standard cable for DKA1 with power supply, 7-pol. RS232



Kabellänge - cable length : 1.5 m

Anschluss an DKA1 Connect to DKA1

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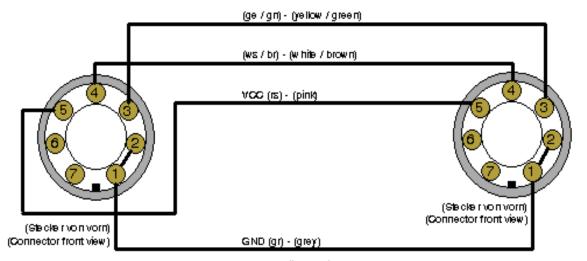
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# 1.3.6 1:1 cable 7-pole DKA1 - DKA1

For connecting a weather station or 2 DKA1, one at DATA\_PC socket, the other at DATA\_WS socket.

# 1:1 Verbindung skabel DKA1 - DKA1, 2 x 7-pol. male ,RS232 1:1 connection cable DKA1 - DKA1, 2 x 7-pole male, RS232



Kabellänge : bis 50m Cabe length : up to 50m

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# 1.4 Technical Appendix for DKA1

# 1.4.1 Content of EEPROM of DKA1

EEPROM@	Default v	ralue   comment
0	006	index of baudrate
1	005	Time of datastring (< = datalogger request)
2	010	Number of sensors to display
3	004	Delay (* 0,5s) of displayed text before each sensor
4	000	Display-flags: Caution! Restart recommended.
·		Bit0 = Illumination is not faded out.
		Bit1 = Skip info, No output of "DATA", READ", "CLOC",
5	000	
6	000	
7	064	Illumination On threshold
8	192	Illumination Off threshold
9	000	Time offset hour (high)(timezone)
10	000	Time offset hour (low)(timezone)
11	000	Altitude (high)
12	000	Altitude (low)
13	001	Memory address where the flashing dot is displayed.
14	"2"	Millennium
15	"0"	Millennium

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### Data information of module (DKA1):

```
1. Byte:
                Hi-Nibble: Memory offset (address) of Module
                Lo-Nibble: memory offset of preferred module which determines, if it is displayed or not.
              2. Byte:
                Hi-Nibble: Memory offset of Module
                Lo-Nibble:
                             Bit0 = display sensor text (Hieroglyphs)
                             Bit1 = Sensor text only displayed, when it is dark.
              3. Byte:
                Hi-Nibble: Bit4 = Display the dot (1=on)
                             Bit5 = Do not display the value, if value is zero (delete sensor memory)
                             Bit6 = Recognise preferred sensor in 1st Byte
                             Bit7 = Delay for this sensor devided by 2
                Lo-Nibble: Integers (from left) (Bits0-3),
              4. and 5. Byte: Sensor-identifier for this module is compared to 1st and 2nd sensor digit
                (i.e. TE0.0 1.digit=T)
                special case: Sign \sim (=0x7E) in 3rd Byte ->
                    Is 4th Byte also ~, then sensor is skipped.
                    Otherwise the sign in 4th Byte is compared to 3rd sensor digit
                    (i.e.: compared with date 12.01.04, 3rd sensor digit = 1.dot)
                                      000 002 "~" ":"
          16
                          000 (00h)
                                                                     Time
          (0)
                                                "~"
                                      000 146
          21
                          016 (10h)
                                                                     Date
          (1)
          26
                          033 (20h)
                                      000 196
                                                     "%"
                                                                     Year (preferred sensor is date)
          (2)
                                                      ^{"}E"
                                                 "T"
                          048 (30h)
                                      016 019
                                                                     Temperature
          31
          (3)
          36
                          064 (40h)
                                      032 019
                                                 "F"
                                                      ^{"}E"
                                                                     Humidity
          (4)
          41
                          080 (50h)
                                      048 004
                                                 D"
                                                      "R"
                                                                     Pressure
          (5)
          46
                          160 (A0h)
                                      128 004
                                                 "Z"
                                                     "A"
                                                                     Additional A
          (10)
                                                 "W"
                                                      "R"
          51
                          103 (67h)
                                      064 068
                                                                     Wind direction
          (6)
                                                 "W"
                                                      "G"
          56
                          112 (70h)
                                      080 051
                                                                     Wind speed
          (7)
          61
                          128 (80h)
                                      096 019
                                                "R"
                                                      ^{"}E"
                                                                     Precipitation
          (8)
                                                 "S"
                                                      "O"
                                                                     Sun
          66
                          144 (90h)
                                      112 004
          (9)
                          176 (B0h)
                                                 "Z"
                                                     "B"
                                                                     Additional B
          71
                                      144 004
          (11)
                                                     "C"
                                                                     Additional C
          76
                          192 (C0h)
                                      160 004
          (12)
                                      176 002
                                                                     Unused sensor
          81
                          208 (D0h)
          (13)
                          224 (E0h)
                                      192 002
                                                                     Unused sensor
          86
          (14)
          91
                          240 (F0h)
                                      208 002
                                                                     Unused sensor
          (15)
          96...
                127
                          255
                                                                     Unused
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```

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### **2.1 DMMK**

DMMK Multi-Meteo Display displays the measured values of our weather stations and sensors such as time, temperature, humidity, pressure, windspeed, winddirection, precipitation, global radiation and 2 additional sensors (standard voltage in mV). The DMMK is designed for operation in dry environment (indoor use only).

### 2.1.1 Content of shipment

Shipment of DMMK includes:

- 1 DMMK
- 1 Powersuppy unit 15V 1.6A with cable for supplying the DMMK
- 1 connection cable (serial cable with 9-pole Sub-D male and 9-pole Sub-D female) for connection of DMMK to a PC or another display
- 1 manual in PDF-format (on CD-ROM)

### 2.1.2 Safety instructions

DMMK can only be used to display weather data of Reinhardt-weather stations.

The instrument must not be placed within reach of children and pets.

### 2.1.3 Operation conditions

**Ambient temperature** while operating DMMK must not exceed +5°C and +35°C. The temperature during transport must be within 0°C and +50°C.

When water has condensed in the instrument, DMMK has to be acclimatized for at least 2 hours before operating it.

DMMK is designed for operation in **clean, dry environment**. It must not be operated out of doors or in dusty or wet environment!

While operating DMMK, humidity must be within 20% and 70% relative humidity.

The supply voltage must be within 8VDC and 28VDC.

# 2.1.4 In case of complaints

In case of complaint please enclose a paper with error description and your telephone number or email address, when you send the DMMK back to our company.

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# 2.2 Commissioning of DMMK

Commissioning is easy:

- 1. Mount the DMMK at the wall, or place it on a plane table.
- 2. Connect the cable of the power supply to socket "Power" and, if necessary, the 9-pole SUB-D male into the "DATA PC" socket of DMMK and the 9-pole SUB-D female to a COM-port of your PC or to the "DATA WS" input of another display.
- 3. Connect the power-supply to a power outlet 230VAC / 50Hz.
- 4. DMMK now performs a short system diagnose and lights each segment of the single displays. DMMK then displays "no data" which means that no weather data are received yet.
- 5. Connect the cable for the weather station to the "DATA WS" socket of DMMK. Finally connect the cable to your weather station or sensor and plug in the PSU for the weather station to a power outlet 230VAC / 50Hz..

### NB

Please take care that you remove the plug from the MWS9-5 weather station, when no power supply is applied, otherwise the internal backup batteries (3x1.2V NiMh-accus) discharge and cause errors. As soon as the first set of data is sent, DMMK displays all received weather data on its displays. In order to set the time correctly, you have to start the PC-software. The clock of the weather station is set to your computer's clock.

If your weather station has got a GPS-receiver (MWS 5MV, MWS8, MWS 9-5 and sensors with data logger), the clock is set automatically soon after operating power is applied.

## 2.2.1 Setting the Altitude by PC

By default, our weather stations give out the absolute pressure (altitude is set to 0 m). If you want to display the barometric pressure you may set the weather station to the correct altitude by a terminal software (hyperterminal.exe i.e.). Send the command !Oxxxx followed by carriage return and line feed (<CR><LF>) with xxxx for the altitude in meters.

### NB

Please note, that the weather station is now already set to barometric pressure. You must not set the altitude in the software any other time, for the software would then display the wrong pressure. In this case you must set the altitude in the software to 0 meters.

### 2.2.2 Setting the Time Zone by PC

For setting the time zone (Zeitzone), you use a terminal software to send the command !ZZxx followed by Carriage Return and Line Feed (CR LF) to the weather station, where xx is the deviation of your time from the UTC-time in hours. This only makes sense, if a GPS-receiver is connected!!

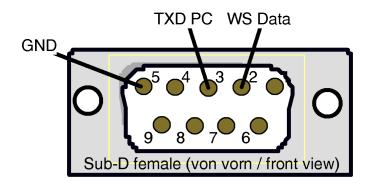
Altitude and time zone can also be set directly on the display, if a weather station is connected (See next page).

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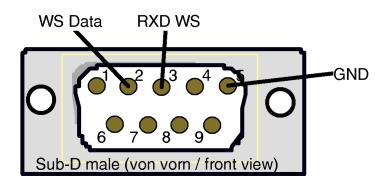
		Digital Displays DKA1, DMMK
2.3 C	onn	ections of DMMK
		Below you can see the connections of DMMK
	$\bigcirc$	POWER DATA PC DATA WS DATA WS DATA PC 9-pole D-SUB 9-pole D-SUB Western Western
	$\bigcirc$	
		The data of the weather station are sent to DMMK and with a PC connected, handed on to the PC.
		The data of the PC are also passed through DMMK and are transmitted to the weather station for controlling.
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# 2.3.1 Data connectors DMMK (9-pole SUB-D)

# Data PC (RS232)



# Data WS (RS232)



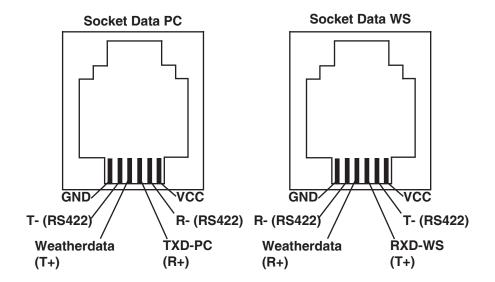
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### 2.3.2 Connection of Westernconnectors DMMK

(Front view)



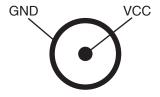


The pins for GND, VCC und WEATHERDATA are connected parallel.

Data at pin TXD-PC of connector "Data PC" are processed in the DMMK and given out at "Data WS" as RXD-WS.

For this case you must not confuse the both connectors!!

### 2.3.3 Connection of Powersocket DMMK



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# 2.4 Technical Appedix for DMMK

### 2.4.1 Content of EEPROM of DMMK

EEPROM@	Default value	comment
0	006	index of baudrate
1	005	Time of datastring (< = datalogger request)
2	000	Reserved (Compatibility to DKA1)
3	000	Reserved (Compatibility to DKA1)
4	000	Reserved (Compatibility to DKA1)
5	000	
6	000	
7	007	Illumination On threshold
8	010	Illumination Off threshold
9	000	Time offset hour (high)(timezone)
10	000	Time offset hour (low)(timezone)
11	000	Altitude (high)
12	000	Altitude (low)
13	001	Memory address where the flashing dot is displayed.
14	"2"	Reserved (Compatibility to DKA1)
15	"0"	Reserved (Compatibility to DKA1)

### Data information of module (DMMK):

- 1. Byte = Memory offset (address) of Module in Hi-Nibble,
- 2. Byte = unused (Compatibility to DKA1)
- 3. Byte = Integers (from left) in Lo-Nibble (Bits0-3),

Hi-Nibble: Bit4 = Display the dot (1=on)

4. and 5. Byte: Sensor-identifier for this module is compared to 1st and 2nd sensor digit (i.e. TE0.0 1.digit=T)

special case: Sign  $\sim$  (=0x7E) in 3rdByte ->

Is 4th Byte also  $\sim$ , then sensor is skipped.

Otherwise the sign in 4thByte is compared to 3rdsensor digit

(i.e.: compared with date 12.01.04, 3.sensor digit = 1.dot)

4.4	a 1	000 00			11.11	l m:
10	)	000 00	002	"~"	":"	Time
2	L	016 00	00 018	"~"	"."	Date
20	3	032 00	0 019	"T"	$^{\prime\prime}\mathrm{E}^{\prime\prime}$	Temperature
33	L	048 00	0 019	"F"	$^{\prime\prime}\mathrm{E}^{\prime\prime}$	Humidity
36	3	064 00	00 004	D"	"R"	Pressure
4	L	080 00	00 004	"W"	"R"	Wind direction
40	3	096 00	0 019	"W"	"G"	Wind speed
5	L	112 00	0 019	"W"	"S"	Wind Peak
50	3	128 00	00 004	"S"	"O"	Global radiation
6	L	144 00	0 019	"R"	$^{\prime\prime}\mathrm{E}^{\prime\prime}$	Precipitation
60	3	160 00	00 004	L''	"X"	reserved for additional sensor
7	L	176 00	00 004	Z''	"A"	reserved for additional sensor
76 15	27	255				Unused

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# 3 Commands for DMMK and DKA1 (V1.13)

All digital displays are designed to be controlled by the echo of our weather stations. This means you do not have to send the commands directly to the display. You just establish the standard connection from the PC to the weather station and from the weather station to the display.

Command	Comment
Bx</td <td>  Sets the Baudrate. possible values:   x=0: 1200 Bd (inaccurate)   x=1: 1200 Bd (inaccurate)   x=2: 1200 Bd (inaccurate)   x=3: 2400 Bd   x=4: 4800 Bd   x=5: 9600 Bd   x=6: 19200 Bd   x=7: 38400 Bd   x=8: 76800 Bd !!! (not PC-conform) !!!   x&gt;8: 9600 Bd</td>	Sets the Baudrate. possible values:   x=0: 1200 Bd (inaccurate)   x=1: 1200 Bd (inaccurate)   x=2: 1200 Bd (inaccurate)   x=3: 2400 Bd   x=4: 4800 Bd   x=5: 9600 Bd   x=6: 19200 Bd   x=7: 38400 Bd   x=8: 76800 Bd !!! (not PC-conform) !!!   x>8: 9600 Bd
C</td <td><ul> <li>Shows READ (DATA) at the display, deletes all sensor values.</li> <li>The display shows current data when the values are sent in periods &gt;= 500ms</li> <li>(time of datastring).</li> </ul></td>	<ul> <li>Shows READ (DATA) at the display, deletes all sensor values.</li> <li>The display shows current data when the values are sent in periods &gt;= 500ms</li> <li>(time of datastring).</li> </ul>
D</td <td><ul> <li>Shows READ (DATA) at the display, deletes all sensor values.</li> <li>The display shows current data when the values are sent in periods &gt;= 500ms</li> <li>(time of datastring).</li> </ul></td>	<ul> <li>Shows READ (DATA) at the display, deletes all sensor values.</li> <li>The display shows current data when the values are sent in periods &gt;= 500ms</li> <li>(time of datastring).</li> </ul>
U</td <td>  Shows CLOCK on the displayuntil the next datastring arrives at the display.</td>	Shows CLOCK on the displayuntil the next datastring arrives at the display.
Y</td <td><ul> <li>Shows READ (DATA) at the display, deletes all sensor values.</li> <li>The display shows current data when the values are sent in periods &gt;= 500ms</li> <li>(time of datastring).</li> </ul></td>	<ul> <li>Shows READ (DATA) at the display, deletes all sensor values.</li> <li>The display shows current data when the values are sent in periods &gt;= 500ms</li> <li>(time of datastring).</li> </ul>
?</td <td>  Shows READ (DATA) at the display, deletes all sensor values.   The display shows current data when the values are sent in periods &gt;= 500ms   (time of datastring).</td>	Shows READ (DATA) at the display, deletes all sensor values.   The display shows current data when the values are sent in periods >= 500ms   (time of datastring).
#xTEXT</td <td><ul> <li>Give out the string TEXT to the module x (if the strings can be displayed).</li> <li>This actually only makes sense for DMMK, because DKA1</li> <li>need too much time for one flow.</li> </ul></td>	<ul> <li>Give out the string TEXT to the module x (if the strings can be displayed).</li> <li>This actually only makes sense for DMMK, because DKA1</li> <li>need too much time for one flow.</li> </ul>
(x/y</td <td>  Writes the value y into EEPROM-cell x , where : <math>x=0127,y=0255</math></td>	Writes the value y into EEPROM-cell x , where : $x=0127,y=0255$
(x/"T</td <td>  Writes the value of "T"into EEPROM-cell x , where   x=0127, T=ASCII(32)ASCII(127)</td>	Writes the value of "T"into EEPROM-cell x , where   x=0127, T=ASCII(32)ASCII(127)
)x</td <td>Reads EEPROM-cell x and displays its value for 2 seconds. x=0127,output Bytevalue 0255</td>	Reads EEPROM-cell x and displays its value for 2 seconds. x=0127,output Bytevalue 0255

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