



Title: serial protocol WX – Ver.4.1 – (since WX-Firmware 064)

Serielles Protokoll WX – Ver. 4.1 – (ab WX Firmware 064)

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Bearbeiter:

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Application note:



Interface Settings 1

Bits per second:	1200
Data bits:	8
Parity:	no
Stop bits:	1
Handshake:	no

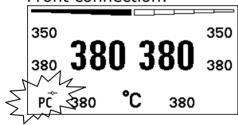
Enable remote 1.1

Transfer following string to the WX unit to enable Remote:

"remote1" WX answers with ?1+unit ID (see 1.5) Compatibility to Firmware version (<052) "REMOTE" works, too.

If the remote setting was successful, following message will be displayed at the unit depending on which interface the cable was connected:

Front connection:



Rear connection:



1.2 Enable remote + button lock

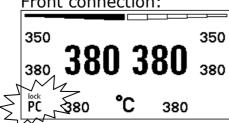
(since Firmware version 062 – buttons on front are without function)

Transfer following string to the WX unit to enable Remote:

"remote2" WX answers with ?1+unit ID (see 1.3)

If the remote and button lock setting was successful, following message will be displayed at the unit depending on which interface the cable was connected:

Front connection:



Rear connection:



Application note:



1.3 Disable remote

(since Firmware version 062)

Transfer following string to the WX unit to enable Remote:

"remote0" WX sends no answer

If the remote setting is reset, the displayed status message will be cleared.

1.4 Checksum

To ensure a successful transmission a checksum will be needed. The checksum is calculated using following formula:

(Ascii value 1 + Ascii value 2 + + Ascii value 6) - 256* = Checksum

1.5 Read data

Read out Unit ID:

"? "	WX answers:	"?1xxxxC"	
		?1 = Unit ID xxxx = Index number	
		C = Checksum	

Unit ID:

Application note:



Read out Status:

"Q" WX answers: **"Q1xxxxC"**

Q1 = Status

xxxx = Value of Status

C = Checksum

Value of Status:

(x,x,x,x) = (Status CH1, Status CH2, not used, not used)

Status:

OFF 0
ON 1
STANDBY 2
AUTOOFF 3

Read out read temperature:

"R" WX answers: "R1xxxxCR2yyyyC"

R1 = Read temperature channel 1

xxxx = Value in 1/10°C

C = Checksum

R2 = Read temperature channel 2*

yyyy = Value in 1/10°C

C = Checksum

Read out set temperature:

"S" WX answers: "S1xxxxCS2xxxxC"

S1 = Set temperature channel 1

xxxx = Value in 1/10°C

C = Checksum

S2 = Set temperature channel 2*

yyyy = Value in 1/10°C

C = Checksum

Application note:



Read out Preset temperature 1:

"T" WX answers: "T1xxxxCT2yyyyC"

T1 = Preset temperature channel 1

xxxx = Value in 1/10°C

C = Checksum

T2 = Preset temperature channel 2*

yyyy = Value in 1/10°C

C = Checksum

Read out Preset temperature 2:

"U" WX answers: "U1xxxxCU2yyyyC"

U1 = Preset temperature channel 1

xxxx = Value in 1/10°C

C = Checksum

U2 = Preset temperature channel 2*

yyyy = Value in 1/10°C

C = Checksum

* depends on the number of available channels

Read out Firmware version:

"V" WX answers: "V1xxxxC"

V1 = Firmware version

xxxx = Value

C = Checksum

Application note:



Read out Tooltyp:

"Y1xxxxCY2yyyyC"

Y1 = Tooltyp ch1 xxxx = Value (Tool) C = Checksum

U2 = Tooltyp ch2*
yyyy = Value (Tool)
C = Checksum

Value (Tool): NOTOOL 0 **WXP120** 2 **WXP200** 3 **WXMP** 4 **WXMT WXP65** 5 **WXP80** 6 7 **WXB200**

* depends on the number of available channels

1.6 Set data

Transmit Status:

"q1xxxxC" q1 = Status

xxxx = Value of Status

C = Checksum

Value of Status:

(x,x,x,x) = (Status CH1, Status CH2, not used, not used)

Status:

OFF 0 ON 1

<u>Transmit set temperature:</u>

"S1xxxxC" s1 = Set temperature channel 1

xxxx = Value in 1/10°C

C = Checksum

"s2xxxxC" s2 = Set temperature channel 2

xxxx = Value in 1/10°C

 \mathbf{C} = Checksum

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Application note:

Transmit Preset temperatur 1:

"t1xxxxC" t1 = Preset temperature 1 channel 1

xxxx = Value in 1/10°C

C = Checksum

"t2xxxxC" t2 = Preset temperature 1 channel 2

xxxx = Value in 1/10°C

C = Checksum

Transmit Preset temperatur 2:

"u1xxxxC" u1 = Preset temperature 2 channel 1

xxxx = Value in 1/10°C

C = Checksum

"u2xxxxC" u2 = Preset temperature 2 channel 2

xxxx = Value in 1/10°C

C = Checksum

<u>Transmit Fingerswitch Action (one shot):</u>

"x1xxxxC" x1 = Fingerswitch action channel 1

xxxx = Value in seconds

C = Checksum

"x2xxxxC" x2 = Fingerswitch action channel 2

xxxx = Value in seconds

C = Checksum