



ROHDE & SCHWARZ

Measuring Instruments
and Systems Division

Service manual

**RADIOCOMMUNICATION
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CMT**

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VOLUME 2

The service manual consists of 2 volumes

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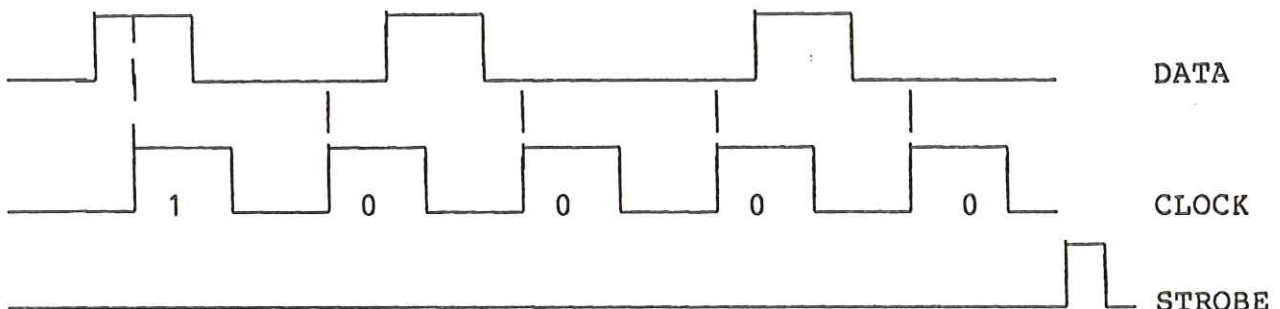
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General

Serial data transmission to the individual plug-in modules takes place on three lines: CLOCK, DATA and STROBE. The data must be read in using an external controller, e.g. PUC, in order to adjust or test the modules independent of the basic instrument.

The timing diagram for data transmission is shown below.



The data on the DATA line are transferred to the parallel/serial converter with each rising edge of the CLOCK pulses; a subsequent STROBE pulse enables the data at the converter outputs. The following BASIC program shows how the user port of the PUC can address the module:

```
10 POKE 59259,255      Set user port
20 DIM A(20)           Number of individual data bits,
                       20 in this case
30 A(1)=0:A(2)=1...    Define individual data

40 FOR I=1 TO 20
50 POKE 59471,A(I)      Read in data;
60 POKE 59471,A(I)+2    Line with significance  $2^0 = \text{DATA}$ ,
                       significance  $2^1 = \text{CLOCK}$ 
70 NEXT I

80 POKE 59471,4         Output of STROBE pulse on line
90 POKE 59471,0:END    with significance  $2^2$ 
```