



## 5345A DRIVER

The 5345A Software Driver is designed to allow easy programming by ATS BASIC in the TODS System.

The 5345A Driver interprets an ASCII string sent to it by a BASIC program. It then converts the string to ASCII coded groups and performs the functions indicated. For ease in programming, the input ASCII string is in the form of a description of the functions desired. This allows the programmer to describe the setting of the counter by terms commonly used on front panel controls. For example if a measurement was to be made on the period of a signal with the gate time set at 10ms and we wanted to hold the measurement until we went to look at it, the BASIC call would be as follows:

100 count ('period, 10ms, hold, wait', 0)

The next counter call would probably instruct it to read and return the value. The 5345A has a memory that remembers how it is set up. Therefore, it is only necessary to change the settings that differ from the previous set up.

When the counter goes to remote mode a setting is assumed. This setting is indicated by the asterisk (\*) in each of the groups on the Remote Programming Code sheet. When the counter goes to remote or an initialize command is given the indicated states are assumed.

In the program call the ASCII string does not have to be the full word for a particular function, for example the letters "FR" gives the 5345A Driver Software the same information as the complete word "FREQUENCY". The complete word can be used if the programmer desires, for his own reference. The length of the word to describe the function doesn't matter beyond the minimum required to describe the function. The minimum is indicated on the Remote Programming Code sheet by the underlined letters at the first of the word. The form of the BASIC program call is as below:

100 count ('STRING', '2 STRING' OR 0)

WHERE:

STRING = ASCII string of any length  
with a comma separating commands.

2 STRING = Same as above except zero will  
act as a filler to satisfy BASIC.

		MODEL		STK NO	
		5345A DRIVER			
		BY Bill Birdsell		DATE 3-20-75	
		APPD		SHEET NO 1 OF 2	
TR	PC NO	APPROVED	DATE	DWG NO A-ET9500-97016-1	
REVISIONS			SUPERSEDES		



100 count ("READ", V)

WHERE:

READ = Command to return a reading.

V = The variable in BASIC the reading is returned to.

100 count ("TAKE", Ø)

WHERE:

**TAKE** = Command to take a reading as called out in Remote Program sheet Section 5b.

Ø = Filler for BASIC.

*mit TAKE wird Counter vorbereitet.*

z.B.

10 Count ("IN, TI, 1M, B-, A+, AL.150, BL.150, HO, WA", Ø)

20 Count ("TAKE", Ø)

30 JL

40 Count ("READ", V) *Judiese Var. wird Messergebn. eingelesen*

		MODEL		STK NO	
		5345A DRIVER			
		BY Bill Bridsell		DATE 3-20-75	
		APPD		SHEET NO 2 OF 2	
12	PC NO	APPROVED	DATE	DWG NO A-ET9500-97016-1	
REVISIONS			SUPERSEDES		