



## 2900 → 290 Series Bus Commands

This Application Note is designed to assist the user to transition from programming a 2900 Series tester to a 290 Series tester. The table below illustrates a simple programming example.



2900	290
First, use command <code>*idn?</code> this command is an ID query that confirms communication.	
<code>*idn?</code> SLAUGHTER COMPANY,INC.,2965,0,Version1.03	<code>*idn?</code> SLAUGHTER COMPANY,INC.,297,9991823,Version 1.01.00
Load desired file location 1 using <code>f1</code> . Formally, you would use command <code>m1</code> on the 2900.	
<code>m1 2</code>	<code>f1 1</code>
Query current file parameters using <code>!s?</code> . Formally, you would use <code>mlp?</code> .	
<code>mlp?</code> M2,DC,1.50,5.00,0.00,3.0,5.0,OFF,1.50,0.00,0.00	<code>!s?</code> 1,DCW,1.50,5.00,0.00,0.2,1.0,OFF,1.50,0.00,0.00,OFF
Once you've identified the test is set to DCW, use command <code>saa</code> to edit to ACW test.	
<code>mm 0</code>	<code>saa</code>
Query parameters again to confirm edit.	
<code>mlp?</code> M2,AC,1.24,10.00,0.00,0.1,1.0,60,OFF,1.50,0.00,0.00	<code>!s?</code> 1,ACW,1.24,10.00,0.00,0.2,1.0,OFF,1.50,0.00,0.00,60,OFF
Now you may edit the rest of your desired parameters. Use <code>ev 2</code> to set test voltage to 2kVAC.	
<code>av 2</code>	<code>ev 2</code>
Using command <code>edw 60</code> , change dwell time to 60 s.	
<code>AD 60</code>	<code>edw 60</code>
Finally, you can query parameters to confirm all desired edits have been accepted.	
<code>MLP?</code> M2,AC,2.00,10.00,0.00,0.1,60,0,60,0 FF,1.50,0.00,0.00	<code>!s?</code> 1,ACW,2.00,10.00,0.00,0.2,60,0,OFF,1.50,0.00,0.00,60,0 FF
Run test.	
<code>TEST</code>	<code>TEST</code>

All 290 and 2900 Series command variations, new and changed commands are stated in the table below.

For a complete list of 290 or 2900 Series commands, please refer to the respective product manuals.

Command Note	290	2900
List Results n=1-5?	RD n?	
Read Current Max?	RDM?	
FILE LOAD n=1-5/Memory load	FL n	ML
Query FILE Number?/Memory Load Query	FL?	ML?
List FILE Parameter?/List loaded test parameters	LS?	MLP?
List FILE Parameter n=1-5?/List specified test parameters	LS n?	MLP<n>?
ADD all parameters for one step	ADD s,n,p,p,p,p.....	
Set ACW mode & default parameters/Set Memory test type	SAA	MT<n>, MM<n>
Set DCW mode & default parameters	SAD	MT<n>, MM<n>
Set IR mode & default parameters	SAI	MT<n>, MM<n>
Edit VOLTAGE n n=0.00-5.00 (ACW unit: kV) n=0.00-6.00 (DCW unit: kV) n=0.10-1.00 (IR unit: kV)	EV n	AV<n>, DV<n>, IV<n>
Query VOLTAGE?	EV?	AV?, DV?, IV?
Edit HI-LIMIT n n=0.10-12.00 (ACW unit: mA) n=0.02-5.00 (DCW unit: mA) n=0,1~1000 (IR unit: MΩ)	EH n	AH<n>, AL<n>, DH<n>
Query HI-LIMIT?	EH?	AH?, AL?, DH?
Edit LO-LIMIT n n=0.00-12.00 (ACW unit: mA) n=0.00-5.00 (DCW unit: mA) n=0,1~1000 (IR unit: MΩ)	EL n	DL<n>
Query LO-LIMIT?	EL?	DL?

Command Note	290	2900
Edit RAMP n n=0.2~180.0 (ACW unit: s) n=0.2~180.0 (DCW unit: s) n=0.1 or 2.0 (IR unit: s)	ERU n	AR<n>,DR<n>
Query RAMP?	ERU?	AR?, DR?
Edit DWELL n=0,0.2~60.0 unit: s	EDW n	AD<n>, DD<n>
Query DWELL?	EDW?	AD?, DD?
Edit DELAY n=0,0.5~999.9 unit: s	EDE n	ID<n>
Query DELAY?	EDE?	ID?
Edit CONT. n=0-1	ECT n	CC{n}
Query CONT.?	ECT?	CC?
Edit CONT. HI-LIMIT n=0.00~1.50 unit: Ω	ECH n	CH<n>
Query CONT. HI-LIMIT?	ECH?	CH?
Edit CONT LO-LIMIT n=0.01~1.50 unit: Ω	ECL n	CL<n>
Query CONT. LO-LIMIT?	ECL?	CL?
Edit CONT. OFFSET n=0.00~0.50 unit: Ω	ECO n	CO<n>
Query CONT. OFFSET?	ECO?	CC?
Edit FREQUENCY n=0-1	EF n	AF{n}
Query FREQUENCY?	EF?	AF?
Edit PULSE-MODE n=0-1 (*7)	EPS n	
Query PULSE-MODE? (*7)	EPS?	
Edit DWELL-OFF n=0-1 (*8)	EDO n	
Query DWELL-OFF? (*8)	EDO?	
Edit CONNECT n=0-1	ECC n	CONN{n}
Query CONNECT?	ECC?	CONN?
CONT OFFSET AUTO TEST	SACO	

Command Note	290	2900
Edit SECURITY n=1-2, mmm=000-999	SEC 0 SEC n,mmm	
Query SECURITY?	SEC?	
Edit PLC Remote n=0-1	SPR n	
Query PLC Remote?	SPR?	
Edit DUAL Test n=0-1 (*6)	SDUT n	
Query DUAL Test? (*6)	SDUT?	

