

ST2829AX + ST1901B

Example for parameterization

To be tested:

- All three windings (1P, 2S) on inductance
- Total-PASS, if all three are within their respective

Vorgehensweise

Connection of the scanning fixture ST1901B to the transformer tester ST2829AX:

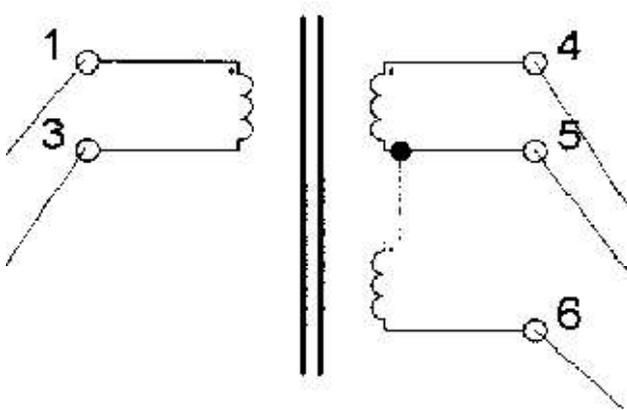
1. Scanner cable



2. Test cable



Transformer

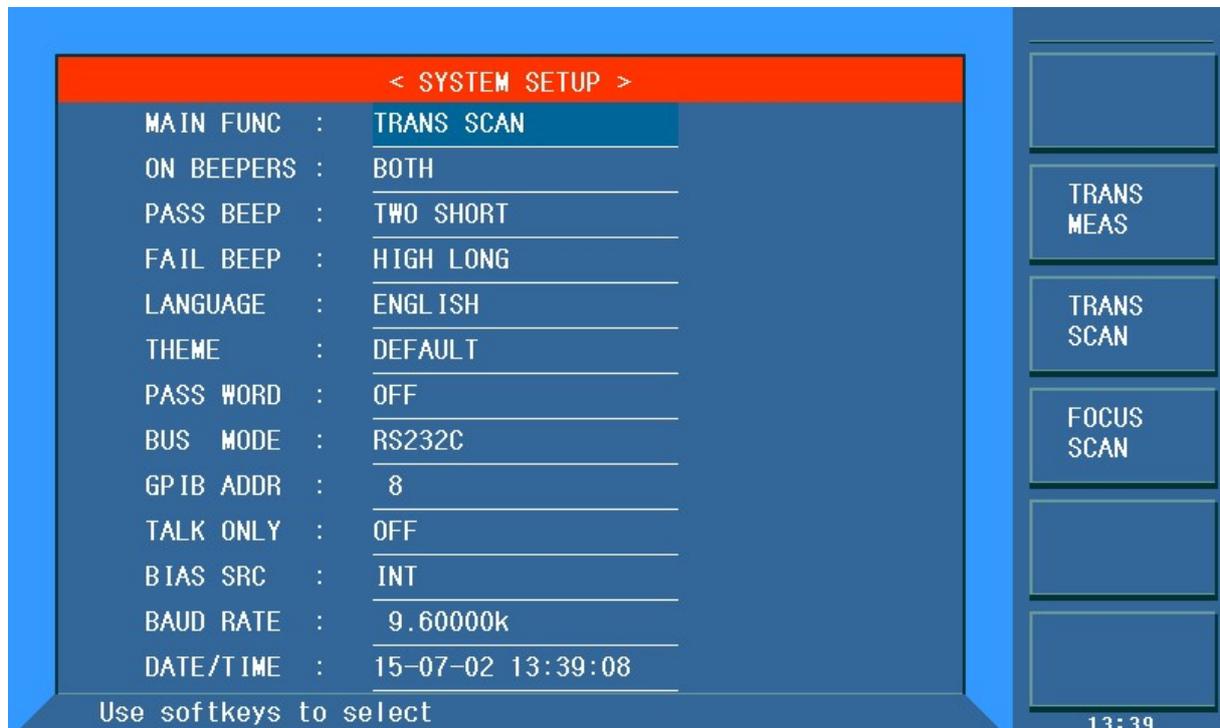


Primary winding: 1-3, connected to 8-10 of the ST1901B

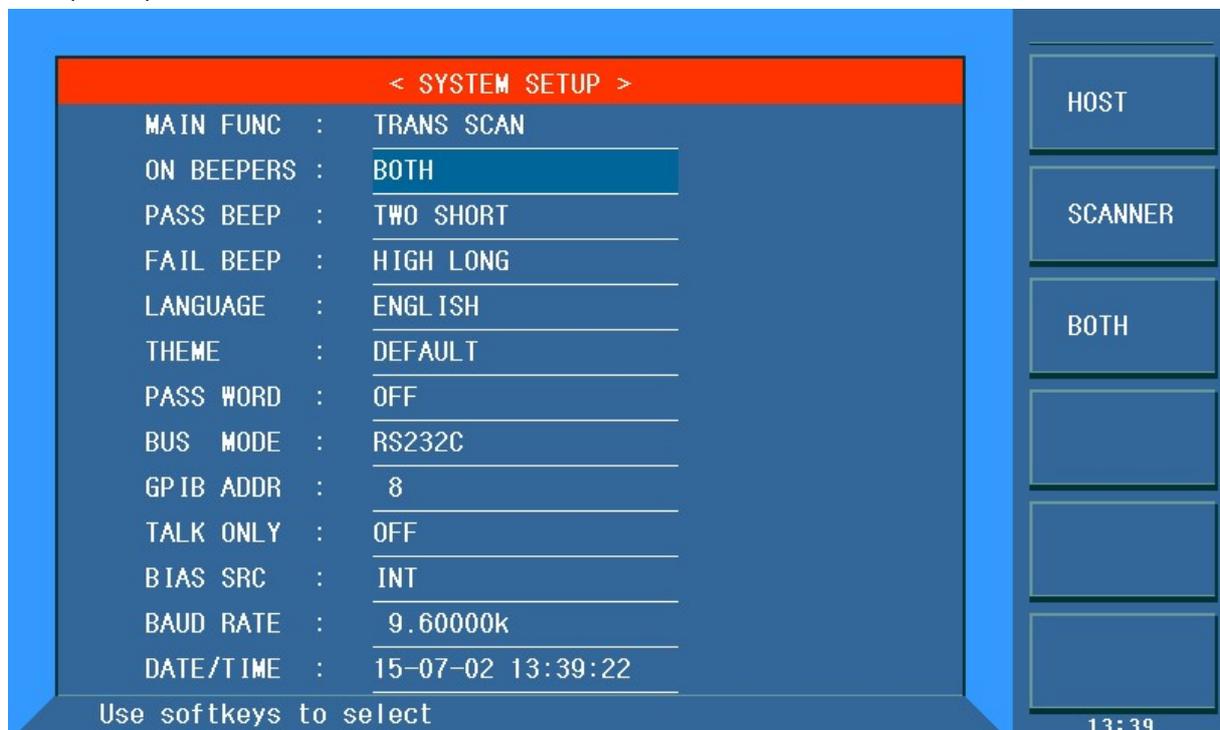
Secondary windings: 4-5-6, connected to 11-12-13 of the ST1901B

Parameterization

Press the softkey [SYSTEM], to get to page <SYSTEM SETUP>. If not already set, use the cursor keys or the rotary knob to move the cursor to the MAIN FUNC field and use the softkeys to set it to TRANS SCAN as shown in the screenshot below.



If necessary, move the cursor to the ON BEEPERS field to choose whether the acoustic notification of the result should be via the basic device ST2829X (HOST), the ST1901 scanning fixture (SCANNER) or both (BOTH).



The notification tones can be set in the following fields PASS BEEP and FAIL.

The screenshot shows the 'SYSTEM SETUP' menu with the following settings:

MAIN FUNC	: TRANS SCAN
ON BEEPERS	: BOTH
PASS BEEP	: TWO SHORT
FAIL BEEP	: HIGH LONG
LANGUAGE	: ENGLISH
THEME	: DEFAULT
PASS WORD	: OFF
BUS MODE	: RS232C
GPIB ADDR	: 8
TALK ONLY	: OFF
BIAS SRC	: INT
BAUD RATE	: 9.60000k
DATE/TIME	: 15-07-02 13:39:52

On the right side, there is a vertical stack of softkeys: HIGH LONG, HIGH SHORT, LOW LONG, TWO SHORT, OFF, and an empty button. At the bottom right, the time '13:39' is displayed.

Press the softkey [SETUP], to get to the page <TRANSFORMER ID>.

The screenshot shows the 'TRANSFORMER ID' menu with the following settings:

TRANSFORMER ID	: 12.6
PRIMARY NUMS	: 001 SET(S)
SECONDARY NUMS	: 002 SET(S)
RESCAN INTERVAL	: --- (x100ms)
SCAN DISP MODE	: PASS/FAIL
FAIL RESCAN	: --- TIMES
DCR MEAS DELAY	: --- (x10ms)
DCR OVER DELAY	: --- (x10ms)
IBIAS ON DELAY	: --- (x10ms)
IGNORE NOM	: FORCE DEV
TRIGGER DELAY	: --- (x10ms)
CYLINDER CTRL	: ON

On the right side, there is a vertical stack of softkeys: TRANS ID, PIN SETUP, TEST CONDITION, STAT, FILE MANAGE, and TOOLS. At the bottom right, the time '13:33' is displayed.

To create a new configuration, press the softkey TOOLS and CLEAR RAM. Confirm with YES.



If necessary, select the softkey PIN LABEL to access the <TRANSFORMER PIN LABEL> page. Here you can enter the names of the transformer pins at the corresponding pin positions if they are not numbered „normally“.

Turn back to the page <TRANSFORMER ID> by pressing 2xEXIT.

Press the right cursor button or using the rotary knob one step further to select the field TRANSFORMER ID and enter a name for the transformer using the number keys and softkeys. Then press the [ENTER] key.

For the next step, enter the number of primary and secondary windings by switching to the corresponding field with the cursor keys or the rotary knob. In this case, set PRIMARY NUMS to 1 and SECONDARY NUMS to 2. Confirm the values again with [ENTER] or by pressing the rotary knob.

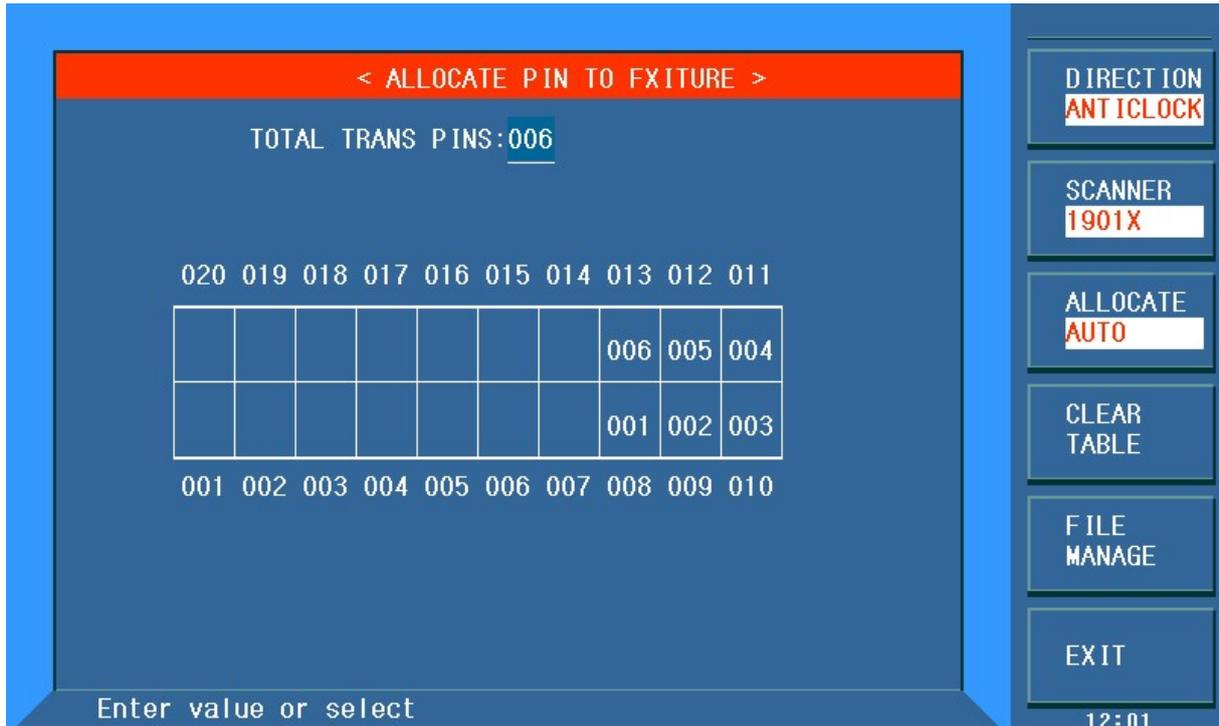
Then press the PIN SETUP softkey followed by PIN TO FIXTURE to get to the <ALLOCATE PIN TO FIXTURE>-page.

If the SCANNER softkey is not assigned 1901X, press it and switch to 1901X.

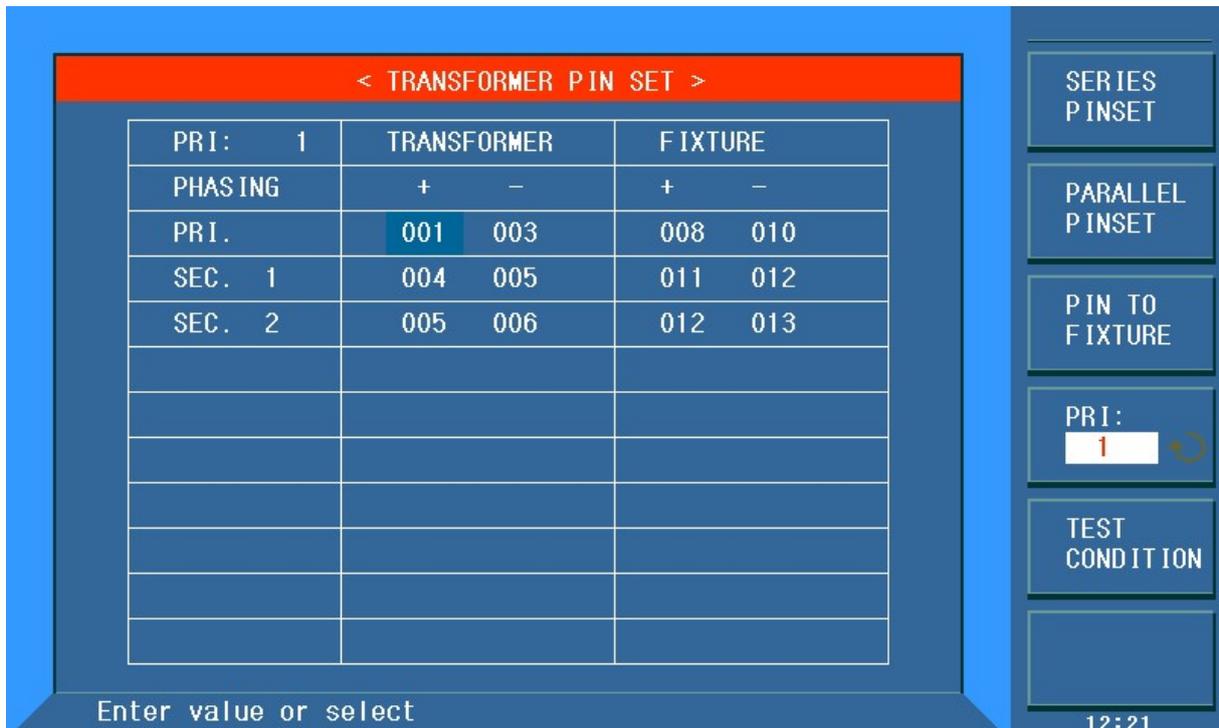
Press the rotary knob and set the number of transformer pins (6). Confirm it by pressing the rotary knob again.

Use the cursor keys or the wheel to select the position of pin 1 and press [1] there, followed by [ENTER]. With the default setting ALLOCATE = AUTO, the remaining pins are automatically selected

based on the set direction of rotation DIRECTION.



To get back to the <TRANSFORMER PIN SET>, press EXIT or call up with [SETUP] and the softkey PIN SETUP.



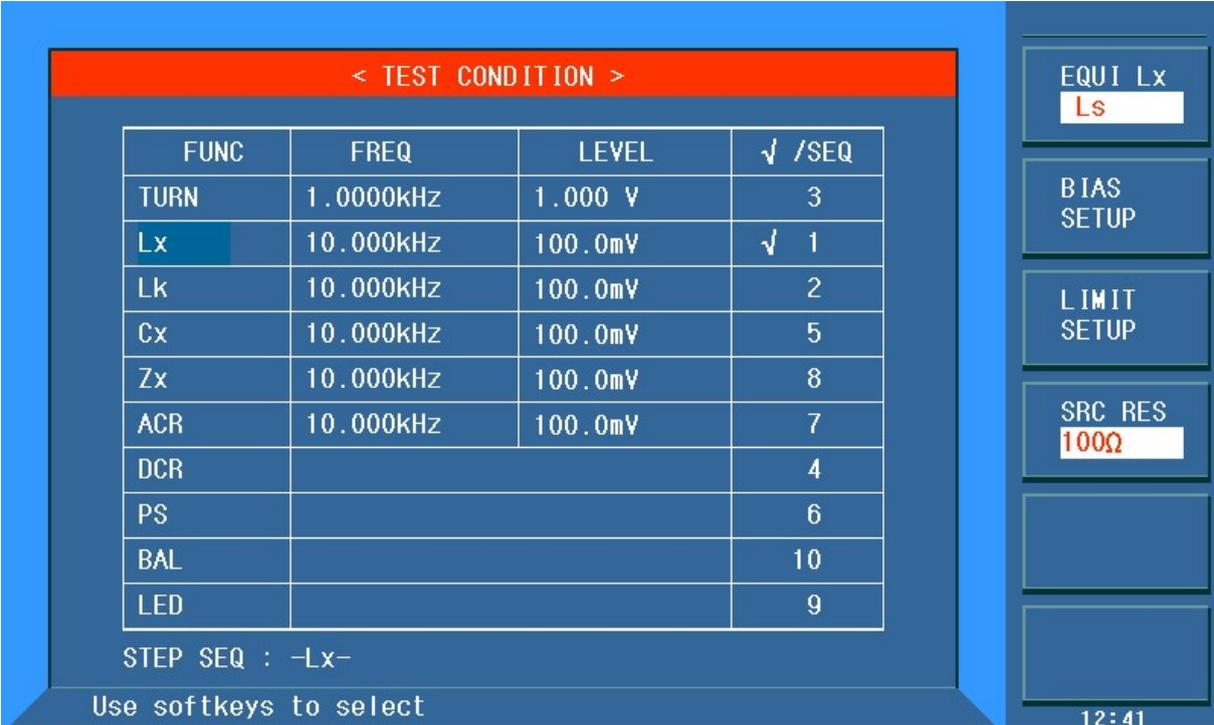
Enter the assignment of the transformer pins to the windings by using the rotary knob or the numeric keypad and confirm with the [ENTER] key. If you have defined more than one primary winding, use the PRI: softkey to toggle the assignment pages for the various primary winding groups

The pin assignment of the ST1901 on the right side is automatic.

If you have defined pseudo windings that consist of a series or parallel connection of several windings, you can use the SERIES PINSET or PARALLEL PINSET softkeys to call up subpages on which you can specify which pins are to be short-circuited by the test adapter for each defined winding and during which test this is to be done.

Now press the TEST CONDITION softkey to define the tests to be performed.

Move the cursor to the right column to activate the required tests and change the order if necessary. In this case only Lx will be set to ON by softkey or rotary knob. Then change frequency and voltage. With the MULTI LEVEL softkey, you can call up a subpage on which the voltage/frequency can be set separately for each defined winding. (To reset this setting, enter a new value in the corresponding field on the TEST CONDITION page using the numeric keys). Use the ALC softkey to activate voltage readjustment, if necessary.



Move the cursor to the Lx field. Now you can use the softkeys to set DC BIAS, the limits and the internal resistance of the source. Press LIMIT SETUP to enter the limits for Lx. To do this, use the numeric keys and terminate the entry with the softkey showing the appropriate unit.

[Lx LIMIT SETUP]

PRI:	1	NOM (H)	LOW (H)	HIGH (H)
001 - 003		400.00μ	290.00μ	515.00μ
004 - 005		1.5000m	1.1200m	1.9600m
005 - 006		220.00μ	173.00μ	307.00μ

Enter value or select

LMT MODE
ABS

PRI:
1

LIMIT Q
SETUP

CLEAR
TABLE

FILE
MANAGE

EXIT

12:54

The setup is now complete. If you want to save this, press the FILE MANAGE softkey or the [FILE] key to call up the <FILE MANAGE> page, select a memory location, press the STORE softkey and confirm, then enter in the bottom Screen line a file name, while the entered transformer ID is specified. If necessary, change it with numeric keys and softkeys and confirm with [ENTER]. If you wish to save to a USB stick instead, change with the EXT softkey. FILE on this, if necessary, use the SUB DIR softkey to change to the directory marked by the cursor, or return with PARENT DIR and press the STORE softkey. Here, too, the file name is requested in the bottom line and confirmed with [ENTER].

[TRANS FILES LIST]

E:\ PIC

FILE/FOLDER	TIME
011 0702_011.GIF	15/07/02 12:54
012 12.6.TRS	15/07/02 13:19
013	
014	
015	
016	
017	
018	
019	
020	

Use softkeys to select

LOAD

STORE

DEL

COPY TO
I:

PARENT
DIR

INT. FILE

13:20

