Touch Screen Monitoring System For Valve Inspection



Operation Manual

Zengxin Machine Electron Equipment Co., Ltd

1 Introduction

1.1 First page

This window is Home of the system, touch "initialization set up" button pop-up " Authority Login" window. You will enter into "initialization set up" if entering the correct password and touching "OK" button, scenes As shown in figure 2.Initialization set up is used for companies to set up their names. The Initial Password: 111111.You will enter into the inquiries screen directly if touch the "inquiries" button. touch blank part of the above region at random in access to the system "Preferences" screen.



Figure 1



1.2 Preferences setting

The screen of preferences setting for system is Preferences set for system. We must set preferences before experiments, otherwise the experiments won't continue .

May directly increase the parameter on each under pulls the frame in the picture (Also may hang the keyboard with outside to pull the frame hypothesis parameter to under), then touches "the increase" the button and automatically increases to under pulls the frame in tabulating.

If increases the project already existed, then could spring prompts the frame. If wanted to use the soft keyboard entry, touched "the soft keyboard" the button then to assign out the system keyboard.

Attention: After increases, if need choose this item, certainly must pull in the frame in under to select this option, then the system becomes effective. Next pulls tabulates can automatically arrange.

Touching "the monitoring", then enters the monitoring picture and appear the prompt, shown as chart 4 and chart 5: Touching "clear up", all project which chosen will be able to be clear. Touches "the withdrawal", then returns to the home page.

When "experimental project" choice "Tuning pressure test", "the test pressure" can switch to "Tuning the pressure".

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FACTORY NUMBER								
	0011 (05 (1.0			TEST ITEM	I			1
INSPECTION DATE	2011/05/16			BACK SEAL		 ⊮Pa	INCREASE	DELETE
VALVE TYPE		• INCREASE	DELETE	HOLDING PRESS	URE	psi	INCREASE	DELETE
VALVE MODEL		• INCREASE	DELETE	SHELL HOLDING	PRESSURE	MPa	INCREASE	DELETE
	T	mm THCREASE	DELETE			I psi	INCREASE	DELETE
VALVE SPECIFICATION		in reason		LEFT SEAL WATE HOLDING PBESS	ER TEST UBF	MPa	INCREASE	DELETE
		INCREASE	DELEIE			lpsi	INCREASE	DELETE
NOMINAL PRESSURE	_ _	MPa INCREASE	DELETE	HOLDING PRESS	URE	I MPa	INCREASE	DELETE
		1b INCREASE	DELETE		гет		INCREASE	DELETE
INSPECTION STANDAR	DS	- INCREASE	DELETE	HOLDING PRESS	SURE		THCREASE	DELETE
		_	۰		терт	psr psr	THOREASE	DELETE
BACK SEAL PRESSURE		0		HOLDING PRESS	URE	∫	INCREASE	DELETE
BRON BEAL THEODOTIE	HOLDING HILL	1	5	BACK SEAL ALLO	WABLE			
SHELL PRESSURE HOL	DING TIME	0	s	LEAKAGE VOLUM	1E	📕 🗾 ml/min	INCREASE	DELETE
		,		SHELL ALLOWAB	LE	🔽 ml/min	INCREASE	DELETE
LEFT SEAL WATER TES	ST	0	s	LEANAGE VOLU	ME ED TEST			
PRESSURE HULDING I	IME			ALLOWABLE LEA	KAGE VOLUME	ml/min	INCREASE	DELETE
RIGHT SEAL WATER TE	EST	0	S	RIGHT SEAL WAT	TER TEST	nl/min	INCREASE	DELETE
Theodoric Hoebind T	INIC			LEET SEAL AIR T	FST			
LEFT SEAL AIR TEST	IME	0	S	ALLOWABLE LEA	KAGE VOLUME		INCREASE	DELETE
				RIGHT SEAL AIR	TEST	BUBBLE NUMBER/min	THCREASE	DELETE
PRESSURE HOLDING T	IME	0	S	ALLUWABLE LEA	KAGE VULUME	BUBBLE NUMBER/min		
					CORT VENDO	ADD FUDTY	- BYI	T
TEST BENCH NO.		INCREASE	DELETE	MONTTOR	SUPI KEIDU		EAI	. 1
	•	INCREASE	DELETE	MONTION	SAV	F LOGIN	LOGO	FF
INSPECTOR NO.								
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			DADA		T			
			РАКА		-			
	A				la cara cara c			
Incroit HOMBER				TEST ITEM	BACK SEAL	TEST	_	
INSPECTION DATE	2011/05/16			BACK SEAL		12 T IPa		
VALVE TYPE 碟商		-		HOLDING PRESS	URE	▶ psi		

FACTORY NUMBE	R	A			TEST ITEM	BACK SEAL TEST		•
INSPECTION DAT	E	2011/05/16			BACK SEAL	12		
VALVE TYPE	際間				HULDING PRESSURE	·	ps1	
VALVE MODEL	ହଢ		_		SHELL HOLDING PRE	ESSURE	<u></u> MPa	
VALVE SPECIFICA	TION	40	mm in		LEFT SEAL WATER T HOLDING PRESSURE	EST 14	psi	
NOMINAL PRESSU	JRE	10 💌	MPa lb		RIGHT SEAL WATER HOLDING PRESSURE	TEST 15	▼MPa ▼ psi	
INSPECTION STAI	NDAR	DS GB123			LEFT SEAL AIR TEST HOLDING PRESSURI	E [16	✓ MPa ▼ psi	
BACK SEAL PRES	SURE	HOLDING TIME	2	2 s	RIGHT SEAL AIR TES HOLDING PRESSURE	T [17	✓ MPa ✓ psi	
SHELL PRESSURI	e hol	DING TIME	2	3 s	BACK SEAL ALLOWAI LEAKAGE VOLUME	BLE 4	💌 ml/min	
	D TF				SHELL ALLOWABLE	5	🗾 ml/min	
PRESSURE HOLD	ING T	IME	2	4 s	LEFT SEAL WATER T ALLOWABLE LEAKAG		💌 ml/min	
RIGHT SEAL WAT PRESSURE HOLD	ER TE	EST IME	2	5 s	RIGHT SEAL WATER ALLOWABLE LEAKAG		💌 ml/min	
LEFT SEAL AIR TI PRESSURE HOLD	EST ING T	IME	2	6 s	LEFT SEAL AIR TEST ALLOWABLE LEAKAG		BUBBLE NUMBER/min	
RIGHT SEAL AIR	TEST	IME	2	7 s	RIGHT SEAL AIR TES ALLOWABLE LEAKAG		BUBBLE NUMBER/min	
TEST BENCH NO.	Γ	<u> </u>			MONITOR	FT KEYBOARI	EMPTY	EXIT
INSPECTOR NO.	[SAVE	LOGIN	LOGOFF

Figure 3

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View		×
1	PLEASE ENSURE THAT ALL PARAMETERS ARE ALREADY SET, OR IT WILL AFFECT	TESTING!
	<u>是(1)</u> 否(1)	
	Figure 4	
	Vie w	
	FACTORY NUMBER HAS EXISTED, WHETHER RE-TEST OR NOT!	
	<u> </u>	



1.3 Monitoring pictur

In the monitoring picture, already establishes the parameter and had experimented data was revealed in left side. Before carried on the 3rd experiment, already be carried on 2experimental data had been revealed. Above right, touching "the current examination pressure" the frame and can pop-up "the demonstration precision" the dialog box with by reveal pressure precision of setup.

The tendency controls to be able to draw the test pressure (to be red)and the hypothesis pressure (blue color) curves.

The tendency controls the time scope is approximately for the time of enactment quarantees presses value 1.33 times(Guarantees presses the enactment time is three-quarter of the tendency controls the time scope). If wants to enlarge or the translation examination curve, so far as touch the curve to control under "the enlargement" or "the translation" buttons, after activates this function and directly touches hauls. If from enlarge men condition returns to the normal state need touches "the enlargement" once more or "the translation", then returns to the normal state. Touching "the start" the button then starts to experiment and touching "the conclusion" the button then the conclusion experiment and pop-up the conclusion experiment dialog box, show as chart 7.

After 3 experimental projects completely had finished and touch Http://www.valvestest.com ; Email: benqpan@gmail.com ; 5 "the preservation" the button, the system preserves the testing record. The convenience later will inquire.

Touches "the preceding screen", then throw out an experiment the examination curve. Touches "the latter screen", then throw out next experiment examination curve. Touching "the inquire about " the button will be able to pop-up " Whether save? yes or no" prompts the frame, the choice "yes" carries on save, after save successfully will the prompt. If will touch "no", not carried on the save data in the situation ,and the system will give up this experimental the data and directly will enter "the consult picture".



Figure 7

1.4Consult picture

Touching "the data sheet" the button will pop-up "the data sheet picture", shown as chart 9.Has recorded all testing record in this table and the result is clear and convenience of consult. Touching "the preservation" the button , this table preservation may be the EXCEL electronic forms also may directly print. If wants to examine some detailed information and you need remember this record to leave the plant the serial number. Returns to "the consult picture", in "leaves the plant the serial number" in the frame toin put has existed leaves the plant the serial number, touch "the consult" the button and the system demonstrated will be supposed to leave the plant the serial number correspondence historic record. Through under pulls the frame to "the experimental project" the choice, may separately consult three experimental the historic records.

Touching "the printing", then jumps changes to the printing window and prints this record. If need print the examination curve and touches under the examination curve "the printing", then prints the examination diagram of curves. If need to revise this record the parameter, touches "the revision", springs "the user jurisdiction" the picture carries on the jurisdiction authentication (non- management jurisdiction can not amendment record). The jurisdiction confirmation through after, then carries on the revision operation and the activation other function buttons which hides, show as chart 8. Note: Under the revision condition, "leaves the plant the serial number" not to be possible to revise. After revises finished, if only is must print and straight contact "printing" button; If wants to revise the primary data and must touch "the preservation" the button to renews the primary data.

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Figure 9

1.5 Printing form

Chooses some experimental project in "the consult picture", touching "the printing" can direct production "valve sighting shot".

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This form support data revises, directly touches the unit standard which must revise then to revise. After revises ,touching "the printing" will carry on looks at inadvance and after satisfaction will print and the paper size is A4.Touching "derives" may lead the form the EXCEL electronic forms and facilitates the management.

1	A	В	C	D	E	F
1		shan	ghai	zeng	xing	
2		VALVE	INSPE	CTION	SHEET	1
3	INSPECTION DATE	2011/05/16	FACTORY	NUBBER		A
4	INSPECTION STANDARDS	GB123	VALVE	TODEL.		QQ
5	VALVE TYPE	碟阀	NONINAL.	PRESSURE	10) MPa
6	VALVE SPECIFICAT ION	40 mm				
7			TEST	DATA		
8	TES	ST ITEN	TEST MEDIA	STANDARD VALUE	ACTUAL VALUE	CONCLUS
9		TEST PRESSURE		12 MPa	0.00 MPa	
10	BACK SEAL TEST	PRESSURE HOLDING ITHE S	VATER	22	1	not quali
11		LEAKAGE VOLUNE		4 ml/min	0 ml/min	
12		TEST PRESSURE		13 MPa		
13	BODY TEST	PRESSURE HOLDING ITHE S	VATER	23	0	no this
14		LEAKAGE VOLUME		5 ml/min	0.00	
15		TEST PRESSURE		14 MPa		
16	LEFT SEAL VATER TEST	PRESSURE HOLDING ITHE S	VATER	24	0	no this
17		LEAKAGE VOLUME		6 ml/min	0.00	
18		TEST PRESSURE		15 MPa		
19	RIGHT SEAL WATER TEST	PRESSURE HOLDING ITHE S	WATER	25	0	no this !
20		LEAKAGE VOLUNE		7 ml/min	0.00	
21		TEST PRESSURE		16 MPa		
22	LEFT SEAL	PRESSURE	GAS	26	0	no this :

P:

Figure 10



Main Interface show:

PACTURE NUMBER 100 INCIDENTIAL PRESSURE 100,DING THE 0 NALVE SPECIFIC NOLDING THE 0 SHELL PRESSURE NOLD
PRESSURE HOLDING THE FILL OF T
TEST RENCI NO. MONITOR MONITOR SAVE LOGIN LOGOPP





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