



CT/PT TURN RATIO TESTER CATALOG

제품 개요

PLC와 SCADA (HMI) SYSTEM 활용하여 CT/PT 시험품의 CT 사양입력 또는 PT/VT 사양입력 → 결선 → 동작 “ON” → DISPLAY 결과 및 DATA저장 등의 일련의 과정을 자동으로 처리, CT 또는 PT VT 제품의 권선비 및 2차 출력, 권선비오차 등을 쉽게 확인 및 저장 가능하도록 설계 개발된 제품입니다.

※ 변압기/변류기 시험기 (PLC + HMI 기능) 특허출원 : 2020. 7. 15

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CT/PT RATIO ERROR TESTER(3P)



01 사용자중심의 편의성

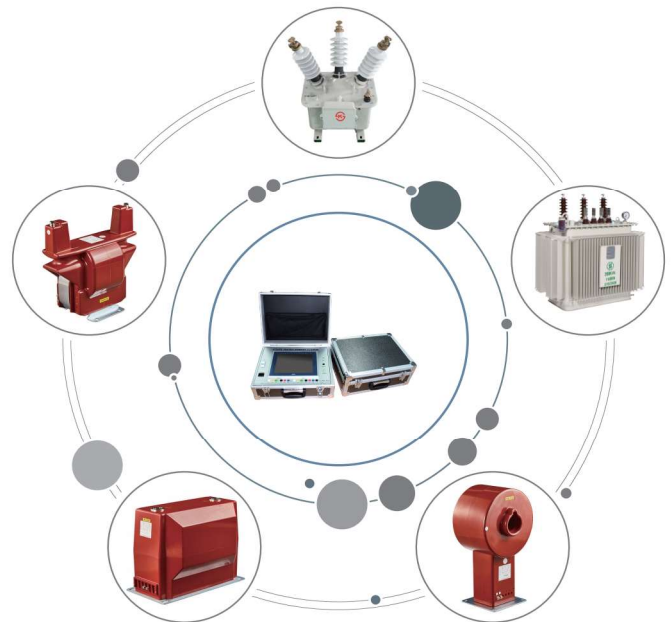
국산제품으로 **02**

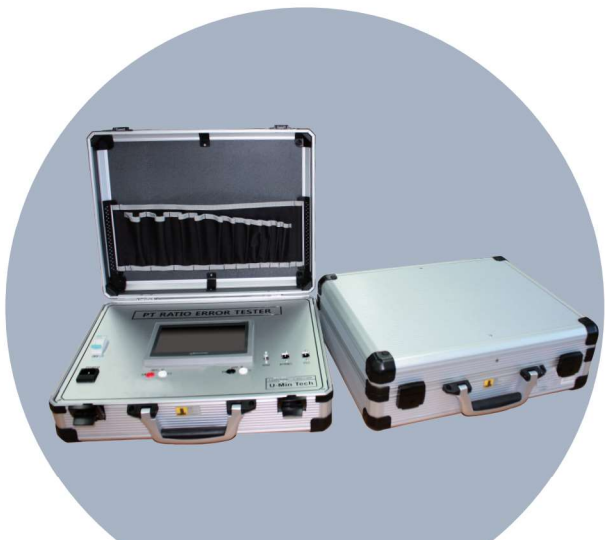
손쉬운 사후 관리(A/S)

03 제품 검수에서 유지관리까지,

어느곳에서도 편리하게

안전하고 빠른 측정 **04**





UM-PT221 - BASIC

PT RATIO ERROR TESTER (1P)

- 측정 범위
PT,VT 단상 (1P2W)
- RATIO : 1~125
- 측정 오차 $\pm 0.5\%$ of RATIO
- HMI LCD 7인치
- 케이스 알루미늄 케이스
- USB 메모리가능
- TEST LEAD선 4개



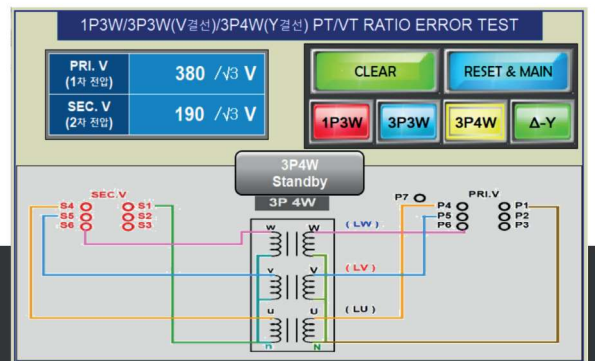
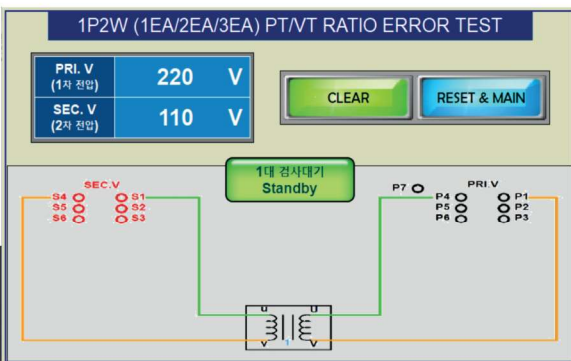
UM-PT223 BASIC

PT RATIO ERROR TESTER (3P)

- 측정 범위
PT,VT (1P3W/3P3W/3P4W Y-Y/3P4W Δ -Y)
단상 GPT(PRI/2nd-3rd)
단상 1P2W(1대-2대-3대)
단상 TAP : 2-3 TAP 전압
PT,VT- RATIO : 1~210
- 측정 오차 $\pm 0.5\%$ of RATIO
- HMI LCD 7인치
- 케이스 알루미늄 케이스
- USB 메모리가능
- TEST LEAD선 12개

1P2W PT/VT RATIO ERROR TEST			
PRI. V (1차 전압)	220 V	Connection diagram (결선도)	TYPE SET
SEC. V (2차 전압)	110 V	OFFSET SETTING	METER (계기용)
RATED RATIO	2.00	POWER (전원용)	AUTO MEMORY
BURDEN (부담)	2.00 VA	START	SAVE
동작상태	RUNNING	NOW	MEM
RATIO		1.97	1.98
SEC OUTPUT(V)		111.70	111.10
RATIO %ERROR		1.54	0.99

3P4W(Y결선) PT/VT RATIO ERROR TEST						
PRI. V (1차 전압)	380 / $\sqrt{3}$ V	Connection diagram (결선도)	TYPE SET	STOP	CLEAR	BACK
SEC. V (2차 전압)	190 / $\sqrt{3}$ V	OFFSET SETTING	METER (계기용)	AUTO MEMORY	0	
RATED RATIO	2.00	POWER (전원용)	U-N RUN	V-N RUN	W-N RUN	SAVE
BURDEN (부담)	17.00 VA	START	U-N MEM	V-N MEM	W-N MEM	USB
동작상태	RUNNING	U-N NOW	MEM	V-N NOW	MEM	W-N NOW
RATIO		0.00	1.97	1.98	1.98	0.00
SEC OUTPUT(V)		0.00	111.70	111.10	111.10	0.00
RATIO %ERROR		0.00	1.54	0.99	0.99	0.00





UM-PT223-7 ADVANCED

PT RATIO ERROR TESTER (3P)

- 측정 범위
PT, VT(1P3W/3P3W/3P4W Y-Y/3P4W Δ-Y)
단상 GPT(PRI/2nd-3rd)
단상 1P2W(1대-2대-3대)
단상 TAP : 2-3 TAP 전압
PT, VT- RATIO : 1~210
- 측정 오차 ±0.5% of RATIO
- HMI LCD 7인치
- 케이스 HARD 케이스
- USB 메모리가능
- TEST LEAD선 12개



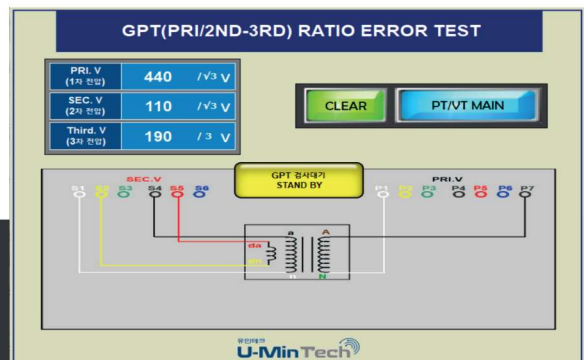
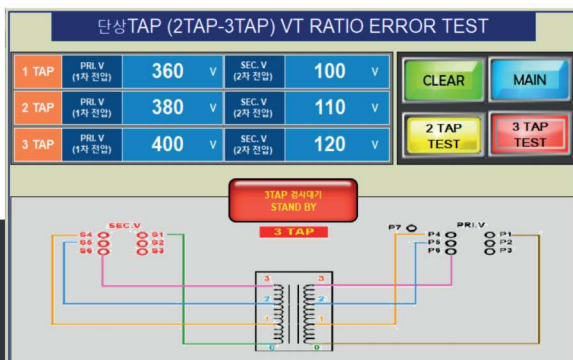
UM-PT223-10 ADVANCED

PT RATIO ERROR TESTER (3P)

- 측정 범위
PT, VT(1P3W/3P3W/3P4W Y-Y/3P4W Δ-Y)
단상 GPT(PRI/2nd-3rd)
단상 1P2W(1대-2대-3대)
단상 TAP : 2-3 TAP 전압
PT, VT- RATIO : 1~210
- 측정 오차 ±0.5% of RATIO
- HMI LCD10인치
- 케이스 HARD 케이스
- USB 메모리가능
- TEST LEAD선 12개

1 PHASE 3TAP VT RATIO ERROR TEST(3단TAP)																														
1 TAP	PRI.V (1차 전압)	360	SEC.V (2차 전압)	100	정격 RATIO	3.60																								
2 TAP	PRI.V (1차 전압)	380	SEC.V (2차 전압)	110	정격 RATIO	3.45																								
3 TAP	PRI.V (1차 전압)	400	SEC.V (2차 전압)	120	정격 RATIO	3.33																								
					BURDEN (부담)	15.00 VA																								
					OFFSET SETTING																									
<table border="1"> <tr> <td>TYPE SET</td> <td>1TAP RUN</td> <td>2TAP RUN</td> <td>3TAP RUN</td> <td>STOP</td> <td>CLEAR</td> <td>BACK</td> <td>SAVE</td> </tr> <tr> <td>METER(계기용)</td> <td>1TAP MEM</td> <td>2TAP MEM</td> <td>3TAP MEM</td> <td>AUTO MEMORY</td> <td>0</td> <td>USB</td> <td></td> </tr> <tr> <td>POWER(전원용)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							TYPE SET	1TAP RUN	2TAP RUN	3TAP RUN	STOP	CLEAR	BACK	SAVE	METER(계기용)	1TAP MEM	2TAP MEM	3TAP MEM	AUTO MEMORY	0	USB		POWER(전원용)							
TYPE SET	1TAP RUN	2TAP RUN	3TAP RUN	STOP	CLEAR	BACK	SAVE																							
METER(계기용)	1TAP MEM	2TAP MEM	3TAP MEM	AUTO MEMORY	0	USB																								
POWER(전원용)																														
동작상태 <input type="checkbox"/> OFF																														
		1ST TAP NOW	MEM	2ND TAP NOW	MEM	3RD TAP NOW	MEM																							
RATIO		0.00	3.58	3.44	3.44	0.00	3.30																							
SEC OUTPUT(V)		0.00	100.56	110.32	110.32	0.00	121.08																							
RATIO %ERROR		0.00	0.56	0.29	0.29	0.00	0.90																							

GPT(PRI/2ND, PRI/3RD) RATIO ERROR TEST																											
2ND RATIO	PRI.V (1차 전압)	440 / √3	SEC.V (2차 전압)	110 / √3	정격 RATIO	4.00																					
3RD RATIO	PRI.V (1차 전압)	440 / √3	THIRD.V (3차 전압)	190 / 3	정격 RATIO	4.00																					
					BURDEN (부담)	15.00 VA																					
					OFFSET SETTING																						
<table border="1"> <tr> <td>TYPE SET</td> <td>P1/2 RUN</td> <td>P1/3 RUN</td> <td>STOP</td> <td>CLEAR</td> <td>BACK</td> <td>SAVE</td> </tr> <tr> <td>METER(계기용)</td> <td>P1/2 MEM</td> <td>P1/3 MEM</td> <td>AUTO MEMORY</td> <td>2</td> <td>USB</td> <td></td> </tr> <tr> <td>POWER(전원용)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							TYPE SET	P1/2 RUN	P1/3 RUN	STOP	CLEAR	BACK	SAVE	METER(계기용)	P1/2 MEM	P1/3 MEM	AUTO MEMORY	2	USB		POWER(전원용)						
TYPE SET	P1/2 RUN	P1/3 RUN	STOP	CLEAR	BACK	SAVE																					
METER(계기용)	P1/2 MEM	P1/3 MEM	AUTO MEMORY	2	USB																						
POWER(전원용)																											
동작상태 <input checked="" type="checkbox"/> RUNNING																											
		PRI / SEC NOW	MEM	PRI / THIRD NOW	(OUTPUT-3RD / √3) MEM																						
RATIO		3.98	3.98	3.99	3.99																						
OUTPUT(V)		110.62	110.62	110.32	110.32																						
RATIO %ERROR		0.56	0.56	0.29	0.29																						



사양/Specification

	UM-PT221 BASIC	UM-PT223 BASIC	UM-PT223-7 ADVANCED	UM-PT223-10 ADVANCED	UM-CPT221 BASIC	UM-CPT221 ADVANCED
TOUCH PANEL Features						
LCD size	7inch	7inch	7inch	10inch	7inch	10inch
RESOLUTION	800 x 480	800 x 480	800 x 480	800 x 600	800 x 480	800 x 600
Luminance	400cd/m ²	400cd/m ²	400cd/m ²	700cd/m ²	400cd/m ²	700cd/m ²
CASE	Aluminum	Aluminum	Hard	Hard	Aluminum	Hard
PT Test List						
1P2W	Y	Y	Y	Y	Y	Y
GPT		Y	Y	Y		Y
TAP VT		Y	Y	Y		Y
1P3W		Y	Y	Y		Y
3P3W		Y	Y	Y		Y
3P4W(Y-Y)		Y	Y	Y		Y
△ -Y		Y	Y	Y		Y
CT Test(WINDOW/DIRECT)						
1P2W					Y	Y
3P3W						Y
3P4W						Y
CT BURDEN Test						
					Y	Y
PT RATIO RANGE						
ALL	1~125	1~210	1~210	1~210	1~210	1~210
CT RATIO RANGE						
WINDOW					1~4000 x T *	1~4000 x T *
DIRECT					1~600	1~600
OTHER FEATHERS						
Download to Usb Memory	Y	Y	Y	Y	Y	Y
Auto test	Y	Y	Y	Y	Y	Y
Weght (kg)	10	10	11	11	10	11
Size(mm)	W450 X D150 X H350	W450 X D150 X H350	W450 X D180 X H350	W450 X D180 X H350	W450 X D150 X H350	W450 X D180 X H350
TEST LEAD SUPPLY						
Basic Lead	4	12	12	12	4	12
For Window CT Only					Y	Y

*전용 WINDOW CT TEST LEAD의 턴 수 (T)를 조절함으로써 최대 8,000 Ratio까지 측정 가능함



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