

Automatic Voltage Regulator

(AVR, Controller for OLTC of M.Tr)

YVC-03

- Processing Speed, Accuracy Improvement
- DVM Function
- Self Diagnosis Function
- Tap Operation of OLTC Counting Function
- Event Data Record
- Communication Interface



THE PRODUCT

The product is automatic voltage regulator to control the On Load Tap Changer(OLTC) on main transformer. It can control the voltage according to each load characteristics and also, it can adjust the voltage effectively by bus/line voltage drop as it includes Digital Voltage Meter(DVM) function too.

SPECIAL FEATURES

Processing Speed, Accuracy Improvement

- Adopt the 32bit Digital Signal Processor
- Possible to measure 0.1V and 0.01A by 16Bit A/D Converter

DVM Function

- Possible to regulate voltage though the voltage of bus and feeder decrease rapidly

Self Diagnosis Function

Tap Operation of OLTC Counting Function

- Count and record the number of tap operation
- Possible to forecast the maintenance time for on load tap changer

Event Data Record

- Record event data(up to 110ea)

Communication Interface

- Offer the communication interface with the RS-232C and RS-485 port
- Check the information of event and change setting values through HMI which is offered by manufacturer

GENERAL SPECIFICATIONS

Control Power Source		DC 125V±20%, AC 85~245V(Optional)
Rated	Current	AC 5A
	Voltage	AC 60~160V
Input Contact	Current	1ea
	Voltage	1ea
	Digital	2ea(Volt-change 1, Volt-change 2)
	Control	2ea('a' contact×2ea)
Output Contact	Alarm	3ea('a' contact×2ea, 'b' contact×1ea)
	Error	1ea('b' contact×1ea)
	Front	RS-232C
Communication	Rear	RS-485
	Structure	Draw out Type
Outer Case	Material	Steel
	Size	205×240×177(mm)

Tap Position Indicator

(TPI, Indicator for OLTC of M.Tr)

YSTPI-9240A~K

- Various types by In-output
- Extensive Power Source Range
- Tap Setting Function
- In-output Signal Compensation Function by Calibration
- Analog Output Scale Function
- Dry Contact
- CE Certification



THE PRODUCT

The product is the device which indicates the tap position on the screen by receiving BCD & Potentiometer values from Motor Drive Unit(MDU) in order to know information for tap position of On Load Tap Changer(OLTC) on main transformer and which transmits analog outputs (DC 4~20mA, 0~1mA, 0~5V, BCD) to the remote control panel or the SCADA system in central control room.

SPECIAL FEATURES

Various types according to In-output

Indicator	Input	Output		Type	Input	Output		Type
	BCD	None		A	Potentiometer	None		F
		Current	DC 0~1mA	B		Current	DC 0~1mA	G
			DC 4~20mA	C			DC 4~20mA	H
		Voltage	DC 0~5V	D		Voltage	DC 0~5V	I
			BCD				E	BCD
Converter	-	-	-	BCD	BCD	K		

Extensive Power Source Range

- Range: AC 100~240V, 50/60Hz

Tap Setting Function

- Possible to operate regardless of tap range of OLTC
- Tap setting range: Start tap 0 or 1, Maximum tap 5~35

In-output Signal Compensation Function by Calibration

- Compensate errors of resistance input signal
- Compensate errors of analog output signal

Analog Output Scale Function

- Possible to scale voltage and current output signals same as tap position

Dry Contact

- Offer the compatibility Improvement between other devices

GENERAL SPECIFICATIONS

Control Power Source	AC 100~240V \pm 10% or DC 125V \pm 20%
Power Consumption	4W
Display Type	7 Segment LED Display(Letter height: 14.2mm)
Display Range	1~35Tap
Allowable Input	110% of input range
Input	BCD, Potentiometer
Output	None, Current(0~1mA, 4~20mA), Voltage(0~5V), BCD
Structure	Indicator(Panel mounting type), Converter(Din rail type)
Certification	CE