VM-5 SERIES MONITOR SPECIFICATIONS

MODEL VM-5S DUAL TACHOMETER

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Model Code / Additional Spec. Code (spec. code is not specified.)										
VM-5S- 🔲 🔲 - 🔲										
Monitor range Ir	nput signal	output	<u>'</u>		Relay output					
1 to 1,000rpm 1 VK		OmADC .	CH1: 4 points (SR	SR2,SR3,SR4) CH1: 2 points (SR1,SR2) CH2: 2 points (SR3,SR4)						
2 to 2,000rpm 2 3 to 5,000rpm 3	1 1 to	5VDC	SR1,SR2,SR3,SR4	Individual output	dividual output SR2,SR4 OR output SR2,SR4 OR output SR2,SR4 OR output					
4 to 10,000rpm ₄	2 		SR1,SR3 Individual	output SR2,SR4 In	tput SR2,SR4 Individual output / SR1,SR3 OR output SR2,SR4 AND output					
6 to 20,000rpm Note) 3 CH1: 2 points (SR1,SI					output SR2,SR4 O	tput SR2,SR4 OR output SR1,SR3 AND output SR2,SR4 Individual outp				
7 to 30,000rpm *1 VK transducer can not detect the wire break in the sensor system, so RD or FK driver 4 CH1: 2 points (SR1,SI SR1,SR3 Individual ou					,SR2) CH2 : 2 poir output SR2,SR4 Al	R2) CH2 : 2 points (SR3,SR4) tput SR2,SR4 AND output A CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) SR1,SR3 AND output SR2,SR4 OR output				
A to 99,999rpm which	wire break sha cially in case o	all be of the	5 CH1: 2 points (SR1 SR1,SR3 OR outpu	,SR2) CH2 : 2 poir SR2 SR4 In	R2) CH2: 2 points (SR3,SR4) SR2,SR4 Individual output B CH1: 2 points (SR1,SR2) CH2: 2 points (SR3,SR SR1,SR3 AND output SR2,SR4 AND output					
	peed monitor, ongly	RD or								
	mmended for safe			- 무무무	누누느	<u> </u>				
Speed relay Speed relay Sp		erisis set value	e Hysterisis set va							
type type (SR1) (SR2)	l) ` '	(CH1)	(CH2)	(5K1)	(SR1) (SR2) (SR3) (SR4) (OK)					
0 Over speed 0 Over speed 0	ver 0 eed 1	1.0V 0.1V	0 1.0V 1 0.1V	0 AUTO-RESET 0 AUTO-RESET 0 AUTO-RESET 0 AUTO-RESET 0 AUTO-RESET 1 SELF-HOLD 1 SELF-HOLD 1 SELF-HOLD 1 SELF-HOLD						
1 Under 1 Under 1 Under 2 0.2V 2 0.2V Note) *2 Input abnormal alarm is not applicable in case of VC and VE input signal.										
3 Short circuit is not detectable in case of wis input signal.										
	- UUUU - UUU /(IS U or RE U)/5G U/TRP									
Relay mode Rel	ay mode R	elay mode	Relay mo	ode Relay mode	First Trigger	Monitor/p	/pulse Relate output Recorder option Input power supply Tr			
	(SR2)	(SR3)	(SR4)		output* Trigger mode*5	outpu		opical spec.		
0 NORMALLY 0 NO	ORMALLY 0 1	NORMALLY	0 NORMA		0 OFF 0 AUTO		ulse 0 4 to 20mADC 2 0 to -10VDC 0 85 to 264VAC			
		-ENERGIZED NORMALLY	DE-ENER		D 1 ON 1 MANUAL		tput 1 1 to 5VDC 3 0 to 10VDC 1 24VDC onitor 2 0 to -10VDC 4 0 to -5VDC 2 110VDC			
		NERGIZED	1 ENERGI				tput 3 0 to 10VDC 5 0 to 5VDC Note) *4 It is necess	ary to set all ts in the same		
WARNING This monitor is designed for monitoring but not for controlling the rotor speed.							5 0 to 5 VDC rack in first	out function is used first o		
Use the speed relay Use the recorder out	contact only for a	ılarms.	in oming the	oto: opood:		When recorder output code is selected, specify this				
 When a zero speed 	system is designe	ed using this n	nonitor, other	r enable contact should	be provided by the		option code. *5 Auto trigger	mode is not n case of zero		
speed use.										
Ordering Information						S	Standard Specifications			
INPUT SPEED/INDICATED SPEED CHANGED RATIO (NON-STANDARD If the indicated rotation speed is different from the input rotation speed, enter into the space below. Input ratio speed rpm rpm In case of a magnification more than 1, the resolution					on SPEED RELAY SE SPEED RELAY S	T POINT ET	4 points (SR1,SR2,SR3,SR4) More than 1rpm: Speed relay can be set in 1 rpm incr	ements until		
					RANGE		110% of monitor range Less than 1rpm :Speed relay can be set in 0.1 rpm incre			
SPECIFICATION) SPEED RELAY SET	TON) deteriorates in proportion to the magnification factor.					UTPUT	±1 digit or less(on digital indicator) 4 points (SR1,SR2,SR3,SR4)			
VALUE	SR2 :					011 01	1 points (OK) or 2 points (OK1,OK2) LCD digital meter with 5 digits (7 segments, with b	ook light\		
							LCD bar graph meter (40 segments, with	back light)		
							SR1,SR3: (yellow LED) SR2,SR4: (red LED)			
(SR2 ≤ SR1 SR4 ≤ SR3 in case of both under speed) Preset to 50% of monitor range unless specified otherwise.					ABNOR. ALARM IND BYPASS INDICAT	ΓOR	OK : (green LED) BYPASS :(red LED)			
					TRANSDUCER IN		VK, RD,FK Series, VE Series, MS Series, VC Series Number of input points: 2 points			
SPEED RELAY HYSTERESIS	resis can be sp	pecified from (0 to 100rpm. (1rpm step)	INPUT IMPEDANI		Approx.5kΩ Min.:2Vpk-pk, Max.:100Vpk-pk				
				MIN. PULSE WID	TH	Approx.50µsec				
SR3 : SR4 :					MAX. INPUT FREQU	ENCY	10kHz			
Preset to 10rpm unless specified otherwise.					TRIGGER MODE	JLOE	1 to 120 pulse AUTO, MANUAL (selectable)	AUTO, MANUAL (selectable)		
NO. OF INPUT P/R	ırom 1 to 12	υ puise.				In case of auto trigger mode, input pulse duty ratio should be between 10 and 90% and input pulse frequency should be 1Hz and				
DIMENSION OF TARGET (Model VK, RD,FK)	. D	<u> </u>	D. B.	~ EXTERNAL CONTAC	T INPUT	over. it depends on the target. Contact type: Dry contact				
					(FROM REAR PANEI DIGITAL METER		Contact for external reset ±(0.003% of rdg. +1 digit) at 25°C(77°F)			
				BAR GRAPH MET	TED	±(0.03% of rdg.+1 digit) at 0 to 65°C(32 to 149°F) ±2.5% of F.S.				
			RECORDER OUTP	UT	±0.5% of F.S. at 25°C(77°F)					
CAUTION) To detect a projection(gear), provide surface A of the projection with a concentric						PUT	Voltage or current output proportional to monitor range			
Curve. Do not make it flat. VK-202A VK-452A VK-302D					(FROM REAR PA	NEL)	1 to 5VDC (output impedance : 250Ω) 4 to 20mADC (max. load resistance : 500Ω)			
A= mm	Input R	RD-05A FK K-202F FK	VK-302P			0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC* (output impedance : 100() (*option)				
B= mm C= mm	get R >		16 ≥8 20 ≥8	MONITOR/PULSE		Number of output points : 2 points Monitor output/Pulse output, selectable				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					OUTPUT (FROM FRONT, R		Monitor output: Input signal is output via a buffer amplifier. Signal level: -0.8 to -22VDC(VK, RD)			
					PANEL)		±15V(MS),0 to 15VDC(VE), 0 to 5VDC(VC) Pulse output: Shaped pulse signal is output via a buffer amplifier.			
	···/ I/		L			Signal level : -1 to +1V(PL),4 to 6V(PH) Output impedance: Approx.100((load resistance 50k(or more)				
OTHERS				TEMPERATURE RA	ANGE	Operating temperature: 0 to 65°C(32 to 149°F)				
							Relative humidity : 20 to 95%RH(noncondensing)			
					MATERIAL AND FIN	NISH	Face plate : Aluminum Munsell N-4.0 (equ Monitor : max.0.7kg	IV.)		
					:		(including single unit instrument rack max.2.5	ikg)		

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