VM-5 SERIES MONITOR SPECIFICATIONS

## MODEL VM-5T DUAL THRUST MONITOR



Model Code / Additional Spec. Code( No entry if additional spec. code is not specified. )			
VM-5T-			
Monitor range Input signal	Frequency response Polarity*1	Recorder output	Alarm reset Alarm reset (DANGER) (ALERT) (OK)
1 -0.5 to 0 to +0.5mm 2 -1.0 to 0 to +1.0mm 1 VK-202F			0 AUTO-RÉSET 0 AUTO-RÉSET 0 AUTO-RÉSET 1 SELF-HOLD 1 SELF-HOLD 1 SELF-HOLD
3 -2.0 to 0 to +2.0mm FK-202F Output card			
5 -40 to 0 to +40mils 3 VK-452A,FK	452F Note) *1 FK/VK	2 /IS□ or /RE□ option	VC
6 -80 to 0 to +80mils 4 VK-602P,FK-		Indication and rec. or	Polarity
Note) When using monitor range 2(-1.0 to 0 to +1.0mm) or 5(-40 to 0 to			Toward sensor Away from sensor Crease Direct Decrease Increase
+40mils), combined with input signal 1 and intrinsically safe Reverse Decrease Increase Reverse Increase Decrease explosion proof construction, the OK alarm set point falls within the			
range. Therefore, use the monitor within			7
	<del></del>	무무무 5	<u>-</u>
Relay mode Relay mode	Relay mode	Jarm delay time	
(DANGER) (ALERT)  NORMALLY NORMALLY	(OK) (DANGER)  NORMALLY 0 3 sec. 0	(ALERT)	Alarm output type First out*2  1: 2 points(DANGER1,ALERT1)H,L are OR output 0 OFF
DE-ENERGIZED DE-ENERGIZED	DE-ENERGIZED 1 1 sec. 1	1 sec.	2 : 2 points(DANGER2,ALERT2)H,L are OR output 1 ON
1 NORMALLY ENERGIZED 1 NORMALLY ENERGIZED	1   NORMALLY   2   6 sec.   2   ENERGIZED   3   None   3		1 : 4 points (H-DANGER,H-ALERT,L-ALERT, L-DANGER)
Note) *2 It is necessary to set all monitor units in the same rack in first out function ON when it is			2 : None ng logic
*3 DANGER: AND output of CH1,2			NĞER : AND output of CH1,2
ALERT : OR output of CH1,2  Voting logic			
/(IS	☐/TRP/EX☐/LG ☐		NGER : OR output of CH1,2 ERT : AND output of CH1,2
7(13			
legista entent Recorder output Input power supply Tropical Sensitivity Special alarm logic			
Isolate output option	requirements*3 spec. corre	ction 1CH	2CH 1CH 2CH
0 4 to 20mADC 2 0 to -10VDC 1 1 to 5VDC 3 0 to 10VDC	0 85 to 264VAC 1 T		DANGER ALERT ALERT NOT OK ALERT —
2         0 to -10VDC         4         0 to -5VDC         2         110VDC         4         CSA         1         NOT OK DANGER         —         ALERT NOT OK           3         0 to 10VDC         5         0 to 5VDC         5         ATEX         NOT OK NOT OK ALERT NOT OK			
4 0 to -5VDC — NOT OK ALERT 5 0 to 5VDC			
When recorder output code 2 is selected,			
specify this option code.  Note) Input abnormal alarm is not applicable in case of VC input signal.			
Ordering Information			tandard Specifications
ALARM SET VALUE H-DANGER1 :		ALARM INDICATOR	DANGER: (red LED) ALERT: (yellow LED)
L-ALERT1 :		ABNOR. ALARM INDICATOR	OK : (green LED)
H-DANGER2 :		BYPASS INDICATOR TRANSDUCER INPUT	BYPASS : (red LED) VK-202A VK-202P FK-202F VK-302P FK-302F
H-ALERT2 : L-ALERT2 :			VK-452A,FK-452F,VK-602P,FK-602F,VC Series
L-DANGER2 : Unless specified otherwise, preset to :		INPUT IMPEDANCE	Approx. 50kΩ
H-DANGER : 100% of monitor range		INPUT	Contact type : Dry contact Contact for external reset
L-ALERT : 10% of monitor range		BAR GRAPH METER	Recorder output conversion accuracy ±2.5% of F.S.
Standard Specifications		DIGITAL METER	Recorder output conversion accuracy ±1.0% of F.S.
ALARM SET POINT 8 points (H-DANGER1,H-ALERT1,L-DANGER1,L-ALERT1,		RECORDER OUTPUT CONVERSION	±0.5% of F.S. at 25°C ±2.0% of F.S. at 0 to 65°C
`H-ALERT2,H-DANGER2,L-ALERT2,L-DANGER2)		ACCURACY	
ALARM SET ±1.0% of F.S. or less		(FROM REAR PANEL)	1 to 5VDC (output impedance : 250Ω)
ALARM SET #0.1% of F.S. or less			0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC* (output impedance : 100Ω) (*option)
ALARM OUTPUT 5 points (DANGER 6 points (DANGER	DUTPUT 5 points (DANGER1,ALERT1,ALERT2,DANGER2,OK) or 6 points (DANGER1,ALERT1,ALERT2,DANGER2,OK1,OK2)		Input signal is output via a buffer amplifier. Signal level -0.8 to -22VDC(VK), 0 to 5VDC(VC)
MEASURED VALUE LCD digital meter w	ith 5 digits (7 segments, with back light)	TEMPERATURE	Operating temperature : 0 to 65°C (32 to 149°F REF.)
the digital meter	er (40 segments, with back light) lue and alarm set value are indicated on and bar graph meter simultaneously.	RANGE	Storage temperature : -30 to +85°C (-22 to +185°F REF.) : 20 to 95% (noncondensing)
H-DANGERT H-ALERT1 L-ALERT1 L-DANGER1 H-DANGER2 H-ALERT2 L-ALERT2 L-ALERT2 L-ALERT2 L-DANGER2 Unless specified off H-DANGER 10 H-ALERT 90 L-ALERT 10 L-DANGER 09  Standard S  ALARM SET POINT 8 points (H-DANGER H-ALERT ALARM SET RANGE H-ALERT H-ALE	perwise, preset to: 0% of monitor range % of monitor range % of monitor range 6 of monitor range Exp ALERT1, - ALERT1, - ALERT1, - ALERT1, - ALERT2, - DANGER2) r range s s 1, ALERT1, ALERT2, DANGER2, OK1, OK2) ith 5 digits (7 segments, with back light) er (40 segments, with back light) lue and alarm set value are indicated on	ABNOR. ALARM INDICATOR BYPASS INDICATOR TRANSDUCER INPUT  INPUT IMPEDANCE EXTERNAL CONTACT INPUT (FROM REAR PANEL) BAR GRAPH METER ZERO SHIFT DIGITAL METER RECORDER OUTPUT CONVERSION ACCURACY RECORDER OUTPUT (FROM REAR PANEL)  MONITOR OUTPUT (FROM FRONT, REAR PANEL) TEMPERATURE	ALERT : (yellow LÉD)  OK : (green LED)  BYPASS : (red LED)  VK-202A,VK-202P,FK-202F,VK-302P,FK-302F, VK-452A,FK-452F,VK-602P,FK-602P,FK-602F,VC Series Number of input points : 2 points  Approx. 50kΩ  Contact type : Dry contact Contact for external reset  Recorder output conversion accuracy ±2.5% of F.S.  0 to 100% of monitor range  Recorder output conversion accuracy ±1.0% of F.S. ±0.5% of F.S. at 25°C ±2.0% of F.S. at 0 to 65°C  Voltage or current output proportional to monitor range 1 to 5VDC (output impedance : 250Ω) 4 to 20mADC (max. load resistance : 500Ω) 0 to -10VDC*,0 to 10VDC*,0 to -5VDC*,0 to 5VDC* (output impedance : 100Ω) (*option) Number of output boints : 2 points  Input signal is output via a buffer amplifier. Signal level : -0.8 to -22VDC(VK), 0 to 5VDC(VC) Output impedance : 100Ω (load resistance 50kΩ or more) Operating temperature : 0 to 65°C (-22 to +185°F REF.) Relative humidity : 20 to 95% (noncondensing)

6H14-179 Rev.3 Issued : Feb.2015 Revised : Jan.2018

Monitor : max.0.7kg (including single unit instrument rack : max.2.5kg)