

This document is intended to provide the menu structure of the VMD420 voltage and frequency monitor, along with a checklist of entered settings for the device. For instructions on installation and use of the VMD420, refer to the user manual and installation bulletin. This document is intended as a supplement and not a replacement to the complete user manual.

Only qualified maintenance personnel shall operate or service this equipment. These instructions should not be viewed as sufficient for those who are not otherwise qualified to operate or service this equipment. This document is intended to provide accurate information only. No responsibility is assumed by BENDER for any consequences arising from use of this document.



	Description	Range	Factory Default	Your Settings / Notes
AL	Undervoltage trip level	6 - 500 V (L-L) 6 - 288 V (L-N)	Based on preset	<input type="text"/>
< U	Overvoltage trip level	6 - 500 V (L-L) 6 - 288 V (L-N)	Based on preset	<input type="text"/>
> U	Hysteresis for voltage alarms	1 - 40%	5%	<input type="text"/>
Hys	Asymmetry alarm trip level (also phase loss)	5 - 30%	30%	<input type="text"/>
Asy	Underfrequency trip level	10 - 500 Hz	Based on preset	<input type="text"/>
< Hz	Overfrequency trip level	10 - 500 Hz	Based on preset	<input type="text"/>
> Hz	Hysteresis for frequency alarms	0.1 - 2 Hz	0.2 Hz	<input type="text"/>
Hys	Phase sequence alarm	OFF (clockwise) / ON (counterclockwise)	OFF	<input type="text"/>
PHS	Latching behavior (Fault memory)	ON (latching) / OFF (non-latching)	OFF (non-latching)	<input type="text"/>
M	Relay K1 operation (failsafe / non-failsafe)	N/O (normally de-energized) / N/C (normally energized)	N/O (normally de-energized)	<input type="text"/>
K1 OP	Relay K2 operation (failsafe / non-failsafe)	N/O (normally de-energized) / N/C (normally energized)	N/O (normally de-energized)	<input type="text"/>
K2 OP	Controls if LEDs indicate alarm state of relays K1 / K2	ON / OFF	ON	<input type="text"/>
LED	Relay K1 trips on device error	ON / OFF	ON	<input type="text"/>
R1	Relay K1 trips on undervoltage	ON / OFF	OFF	<input type="text"/>
ERR	Relay K1 trips on overvoltage	ON / OFF	ON	<input type="text"/>
< U	Relay K1 trips on asymmetry	ON / OFF	ON	<input type="text"/>
> U	Relay K1 trips on underfrequency	ON / OFF	OFF	<input type="text"/>
Asy	Relay K1 trips on overfrequency	ON / OFF	OFF	<input type="text"/>
< Hz	Relay K1 trips on phase sequence	ON / OFF	OFF	<input type="text"/>
> Hz	Relay K1 starts tripped on device startup	ON / OFF	OFF	<input type="text"/>
PHS				
S.AL				

Menu structure is continued on the following page.

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