



ICM450A Line Voltage Monitor

before you buy - see a side by side comparison

Providing Superior Motor Protection from Premature Failure and Damage Caused By Common Voltage Faults



ICM line monitors allow you to set parameters for over/ under voltage and provide protection to your expensive equipment when power is outside the acceptable range.

			MODEL 20 TIME MARK UNIVERSAL 20 FOR ALT 13 3-PHASE MIN. New Minimum Co.	
Specifications	ICM Advantage	ICM Controls ICM450A Features	TimeMark 20/20H Features	
Operating Voltage	Х	Universal 190-600 VAC in one model	2 different models to cover 190-600VAC	
Frequency		50/60 HZ	50/60 HZ	
Type of Measurement		RMS	RMS	
Under Voltage Trip	Х	User settable 2%-25%	Fixed at 10%	
Over Voltage Trip	Х	User settable 2%-25%	Fixed at 10%	
Voltage Imbalance Trip		User selectable 2%-20%	2%-8%	
Fault Interrogation Trip Delay	х	User settable 0-15 seconds across all parameters	1-30 second (over/under voltage) / 1 second fixed (single phasing) / 1 second fixed (imbalance > 15%)	
Anti-Short Cycle Restart Delay	X	Adjustable 0-10 minutes	Adjustable 1-8 min	
Output Contacts		10A @ 250VAC Resistive	10A @ 250VAC Resistive	
Mounting		Surface mount or DIN rail kit available	DIN rail or surface mount, no extra kit needed	
Connections	X	I/4" quick connect	Labor intensive terminal block with screws	
Environmental	Х	-40°F to 167°F, 0-95% non-condensing	-20°F to 140°F, 0-97% non-condensing	
Control Voltage Input (option)	X	18-240VAC	None	
Dual Language	X	English & Spanish	N/A	
Graphical User Interface	X	Backlit LED	None	
Settings precision	X	Digital adjustment down to 1V resolution	Adjustable potentiometers	
Lockout	X	Auto reset or 1-10 trials before hard lock out & manual reset available with one model	Auto reset /Manual resets available on select models/ No trials	
Dimensions		6.5" L x 4.75" W x 1.09" D	3.9" x 1.7" x 2.3"	
Fault History	Х	50 Plus stored in memory	None	
Fault Indicators	Х	LCD human readable display	Flashing LED lights	
Certification	X	UL Listed	UL Recognized	
Voltage Read Resolution & Frequency	х	12-BIT (4096), 3 simultaneous sample & hold, 120MHZ MCU	10-BIT (1024), sequential sampling, 32MHZ MCU	
Safety	X	World Class DFMEA	Absolute minimal construction	
Country of Origin		USA	USA	
EFT Immunity		Passes to Level 4	Passes to level 4	
Surge Immunity	х	Passes to Level 4	Circuit components feature insufficient voltage ratings	

Note: TimeMark accuracy for over /under voltage trip point is about 3% of stated value and imbalance is within 1% of stated value