

MAS CAL

MAS CALIBRATION UNIT



PROJECT	
LOCATION	

FEATURES

- Powered by either a 9V battery or external 24VDC power supply
- Adjustable settings for Footcandle Light Range settings for MAS sensors.
- Adjustable settings of Response Time
- Easy two step programming with LED indicators
- Indicates low battery and faulty connection problem
- Automatically powers down after 10min.
- Program MAS sensors up to 4,000ft away
- Short Circuit protection
- Broken sensor wire indication
- MAS-CAL solves most commissioning problems
- Includes short video training
- Transformer and 9V battery included
- 2-year warranty

DESCRIPTION

The MAS-CAL is the field calibration unit for the MAS sensor. It is designed to operate off of either a 9V battery or external 24VDC power supply. The MAS-CAL provides the MAS sensor with power from either source. The MAS-CAL is used to view the settings of the MAS sensor and be able to halve or double the factory set full scale range of the sensor and be able to double or reset to zero the factory set timing.

The MAS-CAL works with all MAS sensors, even when each has different factory settings because all of the changes are relative to the factory preset values. MAS sensors are optimally calibrated to work for most applications. However, if the sensor doesn't detect enough light to obtain the desired signal level or if the sensor is saturated early during the day, the output signal can be re-calculated. The MAS-CAL has settings

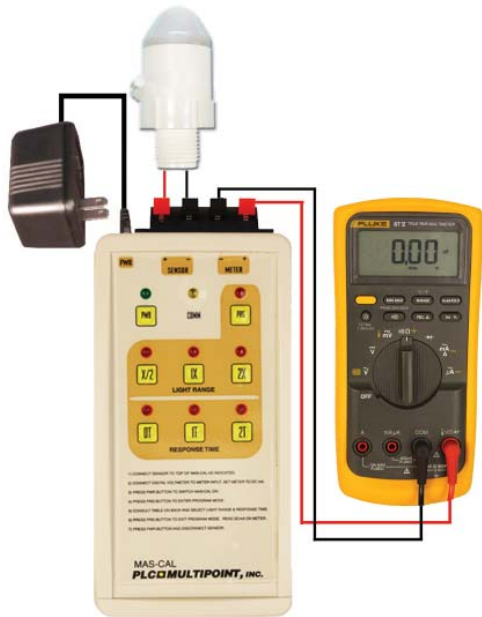
to double or halve the sensor signal. This solves most commissioning problems and factory calibration is always retained. The MAS-CAL is connected to the supplied 24 VDC wall transformer through its power plug and jack. The two wires of the MAS sensor are inserted into the MAS-CAL sensor terminal blocks Red and Black positions. A Digital Multimeter, set on milli-amps is inserted into the MAS-CAL meter terminal blocks. (See Figure1: MAS-CAL Connection Diagram)

Should the MAS sensor be left in Program Mode while connected to the MAS-CAL, The MAS-CAL will switch power off and go into an energy conservation mode after 10min. No LED's will be displayed and the MAS-CAL will not be in program mode. The MAS sensor will retain its last saved Scaling and Time configurations.

TECHNICAL DATA - MAS-CAL

Power Voltage:	9VDC or 24VDC power supply w/ 5.5 x 2.1mm positive Tip Jack
Protection:	Polarity Reversal
Output:	Pulse code sequence
Communication:	2 wire proprietary
Communication Signals:	Non polarized
Distance:	4,000ft
Field Operator Interface:	8 pushbutton pad with integral LED's
Light Range:	2IX, 1X, 2X
Response Time:	0T, 1T, 2T
Program:	Program/Run
Comm.	(LED only)
Operating Temperature:	-40° F to 140° F (-40° C to 60° C)
Sensor Terminals:	4 spring clamps
	+ - Sensor
	+ - Digital Multimeter
Timeout	10 minutes after last keystroke
External Dimension:	7"H x 4"W x 1.1"D
Kit Includes:	Carrying case, battery, 120VAC/24VDC wall plug power supply, MAS-CAL, video

CONNECTION DRAWING



	LIGHT RANGE IN FOOTCANDLE			RESPONSE TIME	
	X/2	1X	2X	0T	1/60 MIN.
MAS-S Sky-light	2,500 FC	5,000 FC	10,000 FC	1T	10 MIN.
MAS-A Atrium	500 FC	1,000 FC	2,000 FC	2T	20 MIN.
MAS-O Out-door	125 FC	250 FC	500 FC		
MAS-I Indoor	50 FC	100 FC	200 FC		