

AM-806 Door and Gate Monitor

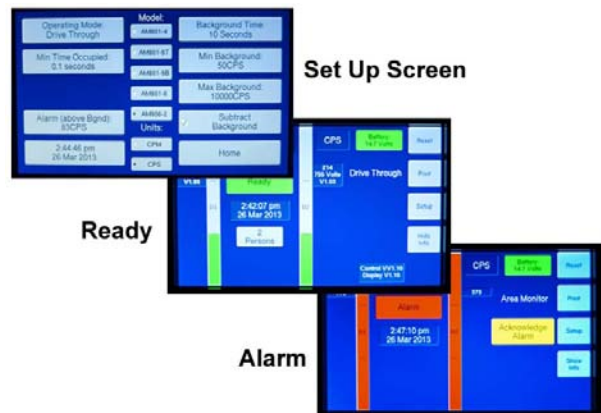


The Model AM-806 is a ruggedized, industrial grade monitor that can be utilized to detect radioactive material. The 806 utilizes 2 large area plastic scintillators totaling 360 cubic inches to detect the movement of gamma emitting isotopes passing through doorways, entrance gates or other similar openings. The instrument is durable and easy to operate with minimal training. Installation can be permanent or temporary. All of the data for the system is stored in a non-volatile memory, capable of maintaining the data for 10 years.

The AM-806 utilizes the latest field proven, microprocessor circuitry and large area plastic scintillators to accurately and rapidly measure gamma radiation from 60 KeV to 2 MeV. Radiation detection is by 2 – 40” long plastic scintillators with a total volume of 360 cubic inches. Each Scintillator has a low energy Window made of 1/32” aluminum that permits the AM-806 to measure gamma radiation from 60 KeV. The scintillators are contained in a durable aluminum housing that can be quickly disassembled with commonly used hand tools. The readout and data entry are accessed through a large area color monitor that utilizes a touch sensitive screen for all data input.

FEATURES

- Color touch screen for display and programming
- Multiple modes of operation
- Auto background subtraction for maximum sensitivity
- Automatic print command on high alarm



AM-806

SPECIFICATIONS

Sensitivity	< 2 μ Ci Cs137 "Drive Through" mode of operation with $\leq 72"$ (189 cm) between detectors
Display	VGA 256 Color touch sensitive screen
Operator Input Controls	All operator input is through touch sensitive VGA screen
Operating Modes	Walk through, drive through, timed count, area monitor
Timed Count	Adjustable 1 – 30 seconds
High Voltage	Adjustable - 300 - 1300 VDC – regulation
Low Voltage	+5 VDC & -5 VDC regulation $\pm 0.5\%$
Power	120/250 VAC – 50/60 Hz – back-up rechargeable battery – nominal 2 hours
Temperature Range	-4°F (-20° C) to 140° F (60° C)
Humidity Range	5 - 95% non-condensing
Memory Retention	10 years
Housing	16 Ga. Aluminum
Weight	83 lbs (37 kg) total (806-2-180)
Warranty	2 Years

Detector/Housing Sizes

806-2-180	40"L x 3"W x 1.5"D	Housing: 44"L x 6"W x 3"D
806-2-300	50"L x 3"W x 2"D -	Housing: 54"L x 6"W x 3"D
806-2-400	50"L x 4"W x 2"D	Housing: 54"L x 6"W x 3"D
806-2-500	50"L x 5"W x 2"D 60"L x 4"W x 2"D	Housing: 54"L x 7"W x 3"D Housing: 64"L x 6"W x 3"D
806-4-360	36"L x 5"W x 2"D	Housing: 80"L x 6"W x 3"D Housing: 40"L x 6"W x 3"D (2 per side)
806-4-360	40"L x 3"W x 1.5"D	Housing: 84"L x 6"W x 3"D Housing: 44"L x 6"W x 3"D (2 per side)

Standard Product Warranty

At WB Johnson Instruments, we stand behind our products. We guarantee your satisfaction in the quality of our instruments by providing a complete two (2) year warranty covering any defect of workmanship, material, and/or design. If our products do not perform, we will provide complete repair and/or replacement.

Calibration & Repair Services

The proper maintenance & calibration of your instruments is critical to ensure proper performance & accuracy. This is why every WB Johnson instrument is provided with a NIST Traceable Calibration Certificate with ISO 17025 Accredited Certification. This high level calibration provides assurance that the instrument meets the most stringent industry calibration & traceability parameters, thereby giving you comfort in our instrument's accuracy and reliability when it matters most.

