

# UE-ECM 586

## Electric Cabinet Monitor

Prevent Injury From Arc Flash

Reduce Unplanned Downtime

Know The Health of  
Your Electric Equipment



The UE-ECM 586 continuously monitors enclosed electrical equipment for the onset of corona, tracking and arcing. Utilizing a 0-10 VDC or a 4-20 mA output proportional to the received signal and a heterodyned output, it will warn in real-time as soon as any of these conditions happen.

### HOW IT WORKS:

Corona, Tracking and Arcing generate ions. The ionization process generates ultrasonic emissions that are sensed by the UE-ECM 586. Set a threshold level for ultrasounds that exceed ambient noise levels to signal an alarm. It's that simple. In addition you can use the heterodyned output to record the event once ultrasound levels exceed the threshold level.

### THE RISKS:

Corona exists above 1000 Volts, arcing can occur at any voltage, low medium or high. Tracking can exist at medium or high voltages. Any one of these conditions can lead to flashover and failure if left unattended. The UE-ECM 586 can alert operators of the presence of these conditions to prevent equipment outage and save \$\$\$\$.

Corona, arcing and tracking can also produce an arc flash event. Arc flash kills and burns thousands of people a year. The tragedy of an operator being seriously maimed, burned or killed can be avoided by letting the UE-ECM 586 warn of these conditions.



**UNIQUE FEATURES:** The UE-ECM 586 comes with an adjustable threshold level control. There are three outputs for your convenience: 4-20 mA, 0-10 VDC and Heterodyned (demodulated). The heterodyned output enables users to determine the cause of an elevated ultrasound level and record events through a typical audio recording device (MP3 recorder, computer, etc.).



### UE-ECM 586 Specifications

<b>Frequency Range:</b>	36-44 kHz
<b>Outputs:</b>	4-20 mA DC : 0-10 VDC all proportional to received signal Heterodyned (Audio) Output: 90 dBA at full scale output into 16 ohms
<b>Alarm:</b>	Open collector rated @ 24 VDC, 10 mA threshold level: adjustable over the output range. Alarm output stops conducting when input level exceeds the threshold level (set point).
<b>Threshold setting:</b>	low impedance output which senses the threshold set point.
<b>Dynamic Input Range:</b>	Approx. 100 dB
<b>I/O Cable:</b>	RF shielded: Length 10 ft. (3 m)
<b>I/O Connector:</b>	DB9
<b>Panel Adjustments:</b>	Sensitivity and threshold
<b>Power Indicator:</b>	Blue LED
<b>Enclosure:</b>	Aluminum dimensions: 4.3x3.7x3.0" (LWH) (10.9x9.4x7.6 cm)
<b>Operating temp:</b>	32°F to 140°F (0°C to 60°C)
<b>Weight:</b>	16 oz (.45 kg)
<b>Warranty:</b>	1 year parts/labor

Covered by one or more of the following patents: 0151115, 0303776, 0315199, 1206586, 1297576, 1881263, 2562758, 2689339, 4416145, 4823600, 5955670, 6122966, 6339961, 6341518, 6415645, 6655214, 6707762, 6804992.  
Specifications subject to change without notice.



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