

MKE-5-IS SCALE SYSTEM SCHEMATIC – CONFIGURATION #2

Externally (Safe Area) Powered Intrinsically Safe (IS) Display Indicator connected to single IS Platform



Zener Safety Barrier
P/N: ARL-BR-IS-PWR-LC

Optional Junction
Breaker Box
P/N: ARL-PS-BB(-C)(-SP)

To AC outlet

RS422-USB
Converter

To PC USB

To Safe Area Control
Systems / Relays

Setpoint

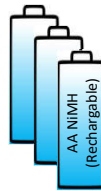
RS422/RS485
Serial Output

Optional

SAFE AREA

HAZARDOUS AREA

*Included Battery
Operated Configuration
(using Rechargeable AA
NiMH Batteries)



Intrinsically Safe Display
Indicator
P/N: MKE-5-IS

Summary

Intrinsically Safe Scale in Hazardous area is powered through an AC outlet in the Safe Area through a Zener Safety Barrier. See notes for further information.

Intrinsically Safe Platform
(Regular Strain Gage or Ultra Precision SAW)

NOTES:

- 1) Power Supply Adapter and Power Converter Breaker Box are SAFE area components only.
- 2) Intrinsically Safe Zener Safety Barrier must be installed according to Installation and Wiring Diagrams.
- 3) Batteries must be recharged in the SAFE Area. The MKE-5-IS Intrinsically Safe Display Indicator does not recharge batteries.
- 4) The optional AC supply must be sourced from the Safe Area through the Safety Barrier and into the Hazardous area to power the MKE-5-IS Display.
- 5) The MKE-5-IS Intrinsically Safe Display Indicator can only work with one power source at a time. Use the side rocker switch on the display to switch between power sources.
- 6) Optional Setpoint/RS422 outputs can be used in Hazardous area using matching Entity Parameters or outside on the Safe Area through the Safety Barrier.