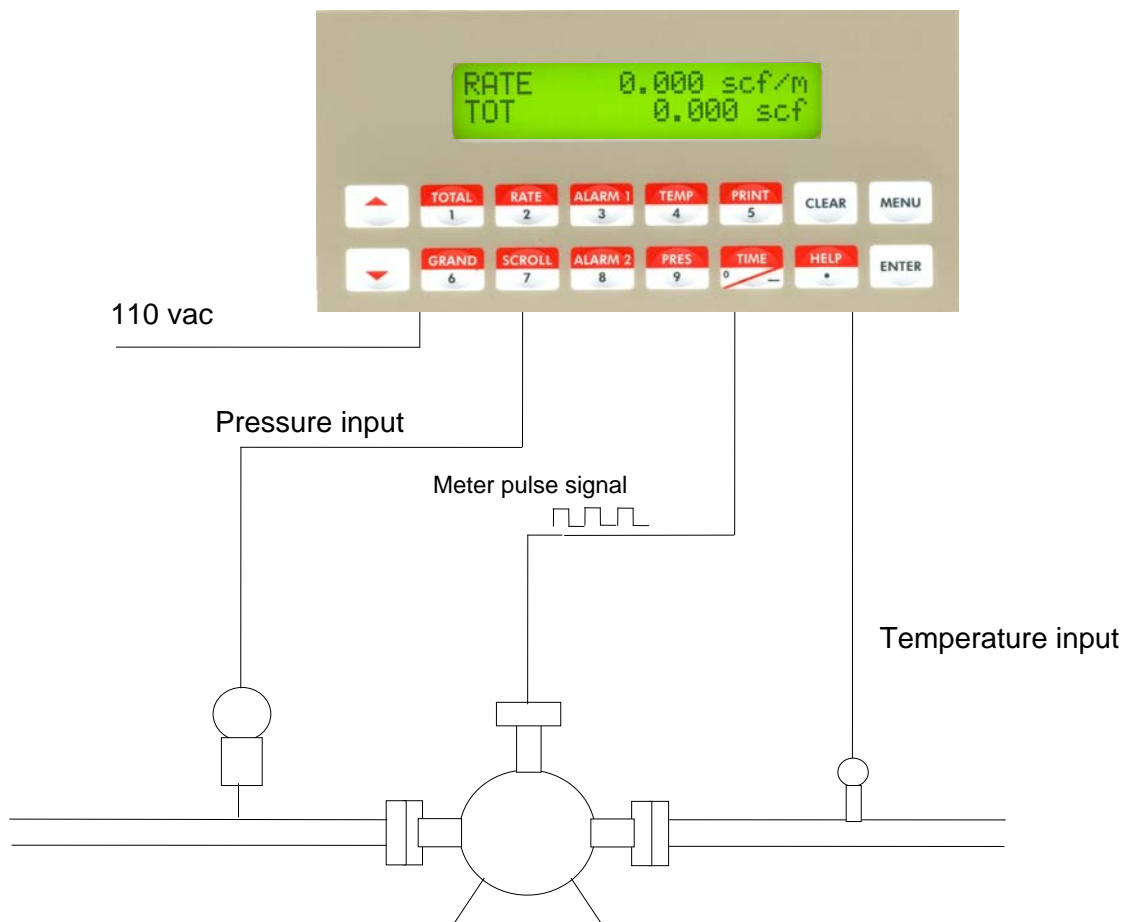




Kessler-Ellis Application Note F010

SuperTROL-II Flow Computer Monitoring the Volumetric Flow of Natural Gas with a Roots® Rotary Gas Meter and Model CEX Electronic Transmitter

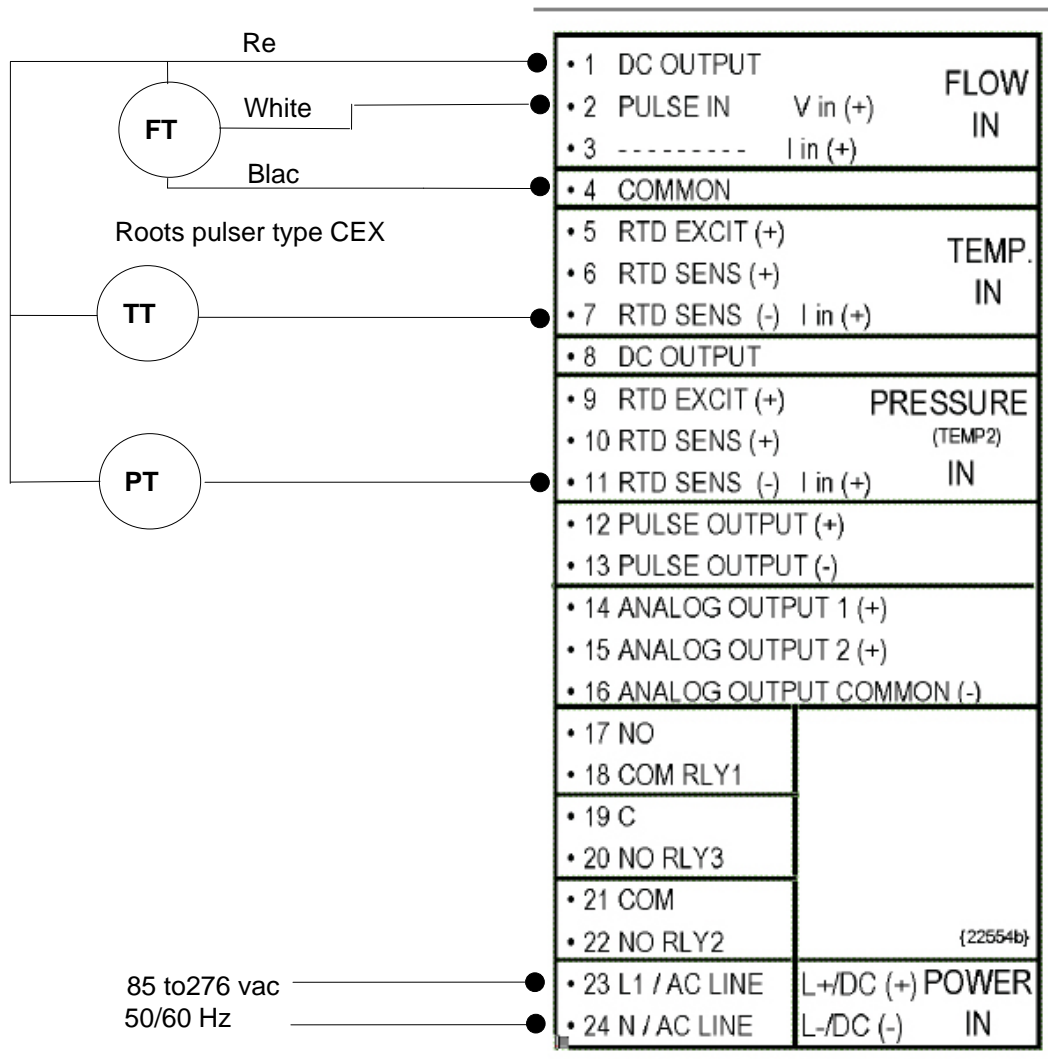


The SuperTROL-II utilizes the pressure and temperature signals, as well as user input data, to compute the density of the flowing natural gas. The SuperTROL-II then performs a calculation that is referenced to standard conditions. The result of the calculation is displayed in SCFM or NM^3 per hour and totalized in SCF or NM^3 .

The SuperTROL-II can be programmed to calculate the volumetric flow to any desired pressure and temperature base conditions.

The SuperTROL-II can provide displays of mass flow, heat flow, mass total, heat total, pressure, temperature, specific volume and specific enthalpy.

Application Terminal Connections



See application notes 20 and 21 for an explanation of the equations relevant to this application.