

CATEGORY:

- ☐ Temperature
- ☒ Pressure
- ☐ Flow
- ☐ Speed
- ☐ Weighing
- ☐ Other

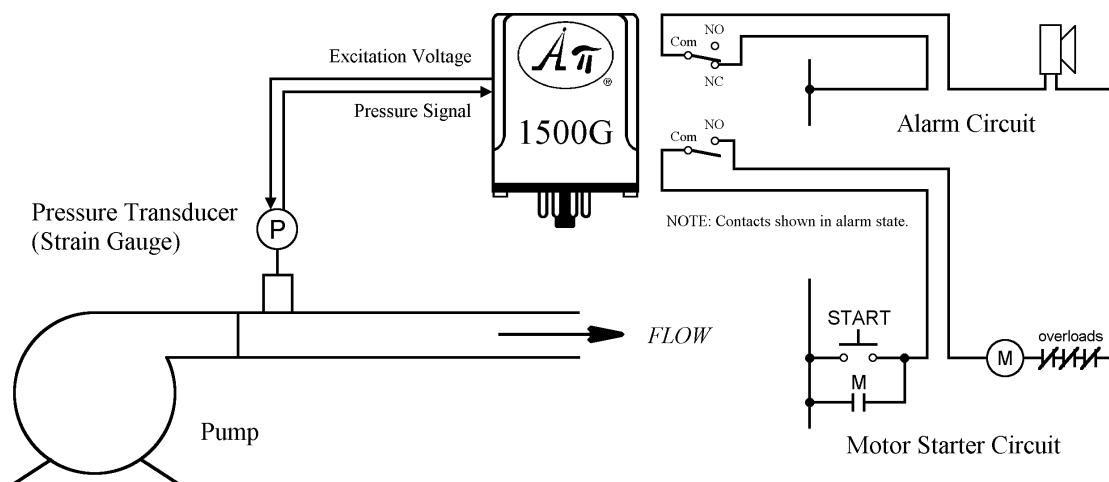
PUMPING SYSTEM HIGH PRESSURE ALARM AND SHUTDOWN

PROBLEM:

A pump is supplying liquid to a process which requires the line pressure to be maintained below some maximum value. If the pressure exceeds the preset limit, the pump must be shut down and a remote alarm activated.

SOLUTION:

A pressure transducer is installed in the line on the discharge side of the pump. The pressure transducer is connected to an Api Model 1500G Strain Gauge (Bridge) Input Single Alarm Trip module which provides two isolated Form C (NO/NC) relay contacts. One set of these contacts is wired in series with the coil of the pump motor starter and shuts down the pump when tripped. The other set of contacts is wired to a remote alarm or annunciator panel to alert the proper personnel of the overpressure shutdown. The setpoint is field adjustable from 0-100% of the input span.



The Api Model 1500G provides the stable excitation voltage for the pressure transducer from its built-in excitation supply. The standard heavy-duty relay contacts are rated 7A @ 240 VAC and can directly control most devices.

Did You Know ... ?

All Api alarm modules have a bi-color LED to indicate alarm status.