

Pressure Measurement

Summary of permitted pressure measurement applications is shown in Table 6-10.

Instrument type	Field Indication	Remote Indication	Point Level	Continuous Measurement
Pressure Gauge	✓			
Pressure Switch	✓	✓	✓	
Pressure Transmitter	✓	✓		✓

Table 6-10 - Pressure Sensor Application

6.6.3. Compatibility to SCADA

All instruments providing remote indication, i.e. instruments with transmitters shall be able to communicate with a central control system via one of the following communications protocols:

- HART
- Profibus
- Foundation Fieldbus
- Modbus

The appropriate protocol shall be determined by the Consultant based on the existing control system communications capability for refurbishment or extension projects or suitable interface with DMAT existing SCADA systems for new projects.

6.6.4. Control Systems

Refer to the Electro-mechanical Specification Section 15000, Part 8 (Control Philosophy for Pumping Stations).

6.6.5. Pump Control Philosophy

The Consultant shall establish the type of control required for the pumping station. Pump control shall be based on level in the wet well. Where deviation from this philosophy is deemed necessary, prior approval shall be obtained from DMAT.

The following minimum interlocks are necessary for safe operation of the pump is shown in Table 6-11: