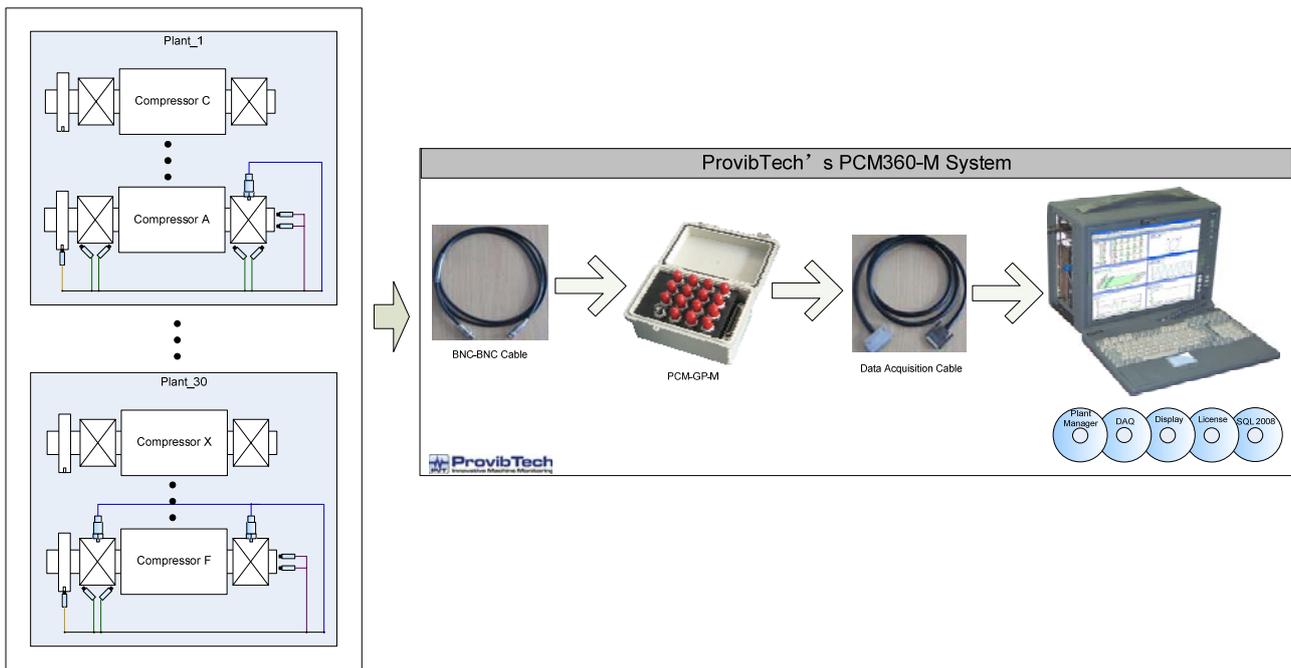




PCM360-M Application Notes

I. Typical Application

For example, there are 30 plants that have several machines such as compressor to be monitored. Some compressors have four measurement points and some have five or more, which depends on user and the field requirements. Figure below shows the process of the system data acquisition: Supposing Compressor A in plant_1 has four proximity probes to measure shaft X and Y vibration; one accelerometer to measure seismic vibration; two proximity probes to measure thrust position; and one proximity probe to measure phase reference. Compressor F in plant_30 has two proximity probes to measure shaft X and Y vibration; two accelerometers to measure seismic vibration; two proximity probes to measure thrust position; and one proximity probe to measure phase reference. Users could also measure other machines similarly.



Software Required:

- Qty. 1 PCM360M-Plant Manager-A0
- Qty. 1 PCM360M-DAQ-A0
- Qty. 1 PCM360M-DISP-A0
- Qty. 1 PCM360M-LIS-A1-B0
- Qty. 1 PCM-SQL

Hardware Required:

- Qty. 1 PT360M-DAQ-A10-B2
- Qty. 1 PCM-GP-M

In this example, the system contains one high-speed DAQ Card. User could order two DAQ Cards if the measurement work is complicated. Each PCM360-M system is capable of monitoring up to 32 plants and supports up to 3200 measurement points. User can collect data among various plants and perform the management on plants independently.



II. Connection Direct To Sensors

Directly connect to sensors to obtain continuous analog signal without any monitors.

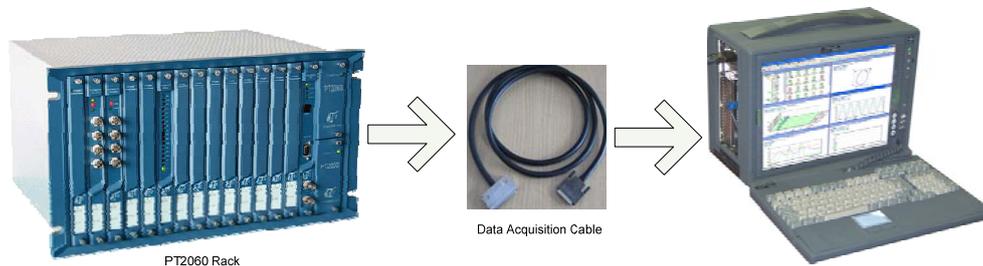
In this case, PCM-GP-M is required, and each PCM-GP-M can hold 16 channels (including phase reference channels).

III. Connection to PT2060 Rack

The PCM360-M directly interfaces with the PT2060 Rack via PT2060/80 signal IO module. Each PT2060 can hold a maximum of 48 channels (with condition monitoring modules).

The 4th slot from the right output dynamic signal of channel 1 to 24. The 3rd output channel 25 to 48. On each of the PT2060/80-BK modules, there are two multi-pin connectors, the top connector output data of channel 1 to 12 (25 to 36) with dual phase references. The bottom connector output data of channel 13 to 24 (37 to 48) with dual phase references.

PCM360-M and PT2060 Rack could be integrated into a complete system to provide a better protection and data acquisition features.



IV. Connection to Buffer Output

Support Buffer interface: to obtain continuous analog signal from Buffer output of monitors.

In this case, PCM-GP-M is required. System with one DAQ Card provides 16 Buffer inputs (require one PCM-GP-M); while system with two DAQ Cards provides 32 Buffer inputs (require two PCM-GP-Ms).

