

19 – BMS Options Report



Memorandum

NNSW Public Schools – Automatic Controls

The purpose of this memo is to identify the BMS options that are available to be installed across the NNSW public schools project. The two control systems that are readily available are Direct Digital Control (DDC) and Building Management System (BMS).

BMS

BMS systems are intelligent microprocessor based controller networks installed to monitor and control a buildings technical systems and services such as air conditioning, ventilation, lighting and hydraulics. More specifically they link the functionality of individual pieces of building services equipment so that they operate as one complete integrated system.

DDC

DDC systems are a simplified version of a BMS with direct control of equipment with signal inputs from thermostats and instruments.

DDC Controllers could perform the following functions:

- capable to monitor and control field points,
- operating setpoints,
- time schedules
- alarm management

Typically a BMS uses multiple DDC systems to control complex systems within certain groups and uses complex software and reporting. For the scale of the mechanical systems that are being design for the school, a DDC system is cost effective solution to achieve the level of automated control that is required. A BMS is more suitable for complex multistorey commercial developments with multiple interfaces required throughout the systems. The schools project will utilise a DDC system to control the HVAC systems. .

Regards

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