



DFES Built Environment Branch - Technical Note 03/15

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Digital Water Level Gauge - DFES Acceptance Of Digital Gauges For Fire System Water Storage Tanks In Lieu Of Mechanical Gauges In Accordance With AS 2419.1 -2005 and AS 2304-2011.

Objective

The objective of this Technical Note is to clarify the Department of Fire and Emergency Services (DFES)s position and to standardise the assessment process in respect to the installation of digital water storage gauges in lieu of the mechanical gauges as required in AS 2419.1-2005 and as detailed in AS 2304-2011.

Assessment Process

When submissions are received and the use of a digital /electronic gauge is proposed, the applicant should present written justification to substantiate the use a digital/electronic gauge alternative.

The information should include, but is not limited to the following:

- Indication why alternative gauges are required (eg tank design);
- Provision of a component inventory of the gauge system proposed, including labelling;
- Ensure the components are UV stabilised and can be read both day and night;
- Ensure the gauge system facilitates two power supplies primary and emergency;
- Provision of a schematic drawing of the gauge design and operation showing all connections;
- Provide water tank capacity information in accordance with AS 2419.1 - General;
- Ensure the gauges are positioned in a location that permits operational functionality (pump room, booster cabinet etc); and
- Provide information on the programmed maintenance requirements.

Conclusion

The decision by DFES to accept an alternative gauge will be based upon the strength of the information received.

References

Australian Standard 2419.1 2005

Australian Standard 2304 2011

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Should the information provided in this guideline require further clarification, please contact DFES Built Environment Branch via email beadmin@dfes.wa.gov.au.

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