

● EN 298:2022 Transition – AGS

Guidance for Product Manufacturers

1. What is the background to this issue?

EN 298:2012 was superseded in November 2022 and replaced with EN 298:2022 Automatic burner control systems for burners and appliances burning gaseous or liquid fuels.

EN 298 is the main standard in Australia to evaluate and certify automatic burner controls using PES (Programmable Electronic Systems). It is referenced in multiple Australian standards including AS 3645, AS 4625, AS/NZS 5263.0 and AS 3814.



2. What technical changes have been made?

Many changes have been made to EN 298 in the 2022 version, and BSI would always advise people to review the new standard for themselves to be sure they do not miss any changes that could have significance for their products. In practice, however, the most significant changes to the standard are:

- Alignment with EN 13611:2019 and addition of the high-temperature operation (HTO). Relevant changes have been made throughout the standard to reference HTO regarding performance tests and instructions
- 6.6.1 Design and construction requirements. Additional Software Clause EN 60730-1:2016 Annex H.11.12.4 Remotely actuated control Functions
- 6.6.3 Class B. The clause was previously N/A but has now been made a requirement for a Reset function
- 6.6.4 Class C. Software now evaluated to EN 60730-1:2016 Annex H.11.12
- 7.8 Data exchange. New requirement added
- 9.3 Voltage dips and interruptions. Tests at 30% decrease for 1.5, 25 & 50 cycles have been added
- 9.5 Surge immunity tests. Tests of the power supply cable at 2kV LN-LN added (previously N/A). Plus, Test of control cables/balanced circuits LN-GND increased to 1.0 & 2.0 kV (Previously 0.5 & 1kV)
- 9.8 Immunity to radiated disturbances induced by radio frequency fields. Bandwidth 2.0–2.7 GHz added. 6 x ISM, GSM & DECT spot frequencies changed/added

- 9.11 Harmonics and interharmonics including mains signalling at a. c. power port, low frequency immunity tests. Clause added

3. When must I upgrade my burner controls to EN 298:2022?

Gas Equipment Certification Scheme “The Rules” ([GTRC Rules](#)) requires in 6.11: “Gas equipment must comply with any new or amended requirements within 2 years of date of publication of the relevant standard and/or code, unless a specific time frame is specified within the standard.”

The Manufacturers should complete the review of EN 298:2022 and develop an action plan to ensure your products continue to comply with the new requirements. We expect the action plan to be completed within the next six months.

An application should be lodged with BSI to update the certification to verify the compliance to the new requirements in EN 298:2022. As required by Gas Equipment Certification Scheme “The Rules”, all manufacturers must complete the upgrade to the new standard before 30 November 2024, which is two years after the publication of BS EN 298:2022.

4. Will that affect my AS 4625 certified burner controls?

Most certainly yes.

Many modern burner controls employ microchips and PES (Programmable Electronic Systems) in their design. As EN 298 is the reference standard to assess PES under AS 4625, burner controls certified to AS 4625 will also need to be assessed the latest requirement in EN 298:2022.

5. So my “old” burner controls must be retested?

[GTRC Rules](#) does not include any requirements for repeat testing of controls because of this change of standard. The control manufacturer is free to review the design themselves and provide evidence that the burner controls continue to comply with EN 298: 2022.

If, because of the review, any retest was required, we would limit the test to the clauses with new requirements only applicable to your burner controls. If the manufacturer decided that they needed to modify the control to meet the new requirements, then the modified control would have to be submitted for testing to verify the modifications.

BSI has extensive experience in testing and certifying against EN 298. We believe our experience will save you significant time and investment in the review process. As an EU Notified Body and a UK Approved Body appointed under the Gas Appliances Regulations, and a Conformity Assessment Body appointed by Gas Technical Regulators of Australia (GTRC), we can conveniently combine your Australian/CE/UKCA certification upgrade with no additional testing.

6. Will that have any impact on appliance manufacturers?

It will if your gas appliance employs an automatic burner control.

AS/NZS 5263.0 calls for AS 4625 and EN 298 for the evaluation of an automatic burner control with a programmable electronic system. Hence appliance manufacturers need to ensure their suppliers are responding to this change.

Please note it will also affect Type B gas appliances as EN 298 is referenced in AS 3814. Type B gas fitters shall ensure burner controls certified to the latest version of EN 298 are used after the transition period ends on 30 November 2024.

7. What if I have any further questions?

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