

| Stations 50th percentile maxima | 102 AWS original probe | 57 AWS replacement probe | Years till replacement | Original 50th percentile frequency change 5 year averages pa | Replacement 50th percentile frequency change 6 year averages pa | Original 50th percentile C temperature change 5 year averages pa | Replacement 50th percentile C temperature change 6 year averages pa | Original probes | Replacement probes | |
|---------------------------------|------------------------|--------------------------|------------------------|--|---|--|---|-----------------|--------------------|-------------------|
| Adelaide | 1996 | 2003 | 7 | 2.0 | 16.2 | 0.5 | 0.2 | Rosemount | Rosemount | |
| Albany | 2011 | | | 31.0 | | 0.2 | | Rosemount | | |
| Alice Springs | 1996 | 2011 | 15 | -12.0 | 18.0 | 0.1 | 0.4 | Unknown | Temp Control | |
| Amberley | 1997 | | | 9.0 | | 0.0 | | Rosemount | | |
| Birdsville | 2001 | | | 41.0 | | 0.9 | | Rosemount | | |
| Bourke | 1998 | 2015 | 17 | -14.4 | 6.5 | 0.6 | 1.0 | Rosemount | WIKA TR40 | |
| Bridgetown | 1998 | | | -0.8 | | 0.1 | | Rosemount | | |
| Brisbane | 1996 | 2013 | 17 | -4.6 | 8.7 | -0.1 | 0.5 | Rosemount | Temp Control | |
| Broome | 1996 | 2015 | 19 | -26.0 | 12.3 | -0.2 | 0.1 | Rosemount | Temp Control | |
| Bundaberg | 1997 | 2010 | 13 | 16.0 | 9.2 | 0.3 | 0.2 | Rosemount | Temp Control | |
| Burketown | 2001 | 2007 | 6 | 31.4 | 9.5 | 0.7 | -0.1 | Rosemount | Rosemount | |
| Butlers Gorge | 2008 | | | -0.2 | | 0.2 | | Temp Control | | |
| Cabramurra | 1996 | 1998 | 2 | -1.2 | 4.0 | 0.7 | 0.9 | Rosemount | Rosemount | |
| Cairns | 1996 | 2004 | 8 | 6.2 | 2.8 | -0.4 | 0.0 | Rosemount | Rosemount | |
| Camooeal | 1997 | 2003 | 6 | 0.8 | 54.0 | 0.0 | 0.2 | Rosemount | Rosemount | |
| Canberra | 2008 | | | -1.4 | | -0.5 | | Temp Control | | |
| Cape Borda | 2002 | | | 0.6 | | 0.0 | | Rosemount | | |
| Cape Bruny | 1997 | 2006 | 9 | 39.4 | 9.3 | 0.5 | 0.2 | Rosemount | Rosemount | |
| Cape Leeuwin | 1996 | 2004 | 8 | -3.0 | 7.5 | 0.1 | -0.2 | Rosemount | Rosemount | Temp Control 2019 |
| Cape Moreton | 1996 | 2011 | 15 | 2.0 | 9.5 | 0.1 | 0.0 | Rosemount | Rosemount | |
| Cape Otway | 1994 | 2010 | 16 | -33.0 | 15.8 | 0.1 | 0.3 | Unknown | Temp Control | |
| Carnarvon | 1996 | 2011 | 15 | 13.6 | 27.3 | 0.4 | 0.5 | Rosemount | Rosemount | |
| Ceduna | 1996 | 2015 | 19 | 2.8 | -1.0 | 0.3 | -0.3 | Rosemount | Temp Control | |
| Charleville | 1996 | 2004 | 8 | -6.0 | 2.2 | -0.3 | 0.0 | Unknown | Rosemount | |
| Cobar | 1997 | 2016 | 19 | 8.8 | -4.2 | 0.6 | 0.8 | Rosemount | Rosemount | Temp Control 2004 |
| Coffs Harbour | 1996 | 2013 | 17 | -8.4 | 25.5 | -0.1 | 0.4 | WIKA TR40 | WIKA TR40 | |
| Cunderdin | 1996 | | | -2.6 | | 0.1 | | Rosemount | | |
| Dalwallinu | 1997 | | | -0.6 | | -0.1 | | Rosemount | | |
| Darwin | 1996 | 2001 | 5 | -8.2 | 30.7 | 0.1 | 0.3 | Rosemount | Rosemount | |
| Deniliquin | 1997 | | | 16.6 | | 0.8 | | Rosemount | | |
| Dubbo | 1996 | 2011 | 15 | -19.4 | 7.7 | 0.7 | 0.5 | Rosemount | WIKA TR40 | |
| Eddystone | 1996 | 2004 | 8 | 35.2 | 8.8 | 0.4 | 0.3 | Unknown | | |
| Esperance | 1996 | 2010 | 14 | 4.2 | 20.0 | -0.2 | 0.2 | Rosemount | Rosemount | |
| Eucla | 1996 | 1999 | 3 | 10.4 | 4.8 | -0.3 | -0.2 | Rosemount | Rosemount | |
| Forrest | 1996 | 2011 | 15 | 5.0 | 12.8 | 0.1 | -0.1 | Rosemount | Temp Control | |
| Gabo Island | 2000 | 2007 | 7 | 34.6 | -4.8 | -0.1 | 0.1 | Temp Control | Temp Control | |
| Gayndah | 2003 | | | 10.8 | | 0.0 | | Rosemount | | |
| Georgetown | 2004 | | | -13.2 | | -0.3 | | Rosemount | | |
| Geraldton | 1996 | 2011 | 15 | 15.0 | 15.5 | 0.2 | 0.5 | Rosemount | Rosemount | |
| Giles | 1996 | 2009 | 13 | -20.6 | -1.7 | -0.6 | 0.2 | Rosemount | Rosemount | Temp Control 2008 |
| Grove | 2004 | | | -0.6 | | -0.2 | | Rosemount | | |
| Halls Creek | 1996 | 2015 | 19 | -27.0 | 22.7 | -0.6 | 0.6 | WIKA TR40 | | |
| Hobart | 1996 | 2007 | 11 | 10.6 | 21.2 | 0.0 | 0.3 | Rosemount | Temp Control | |
| Horn Island | 1996 | 2006 | 10 | -3.2 | 32.5 | -0.3 | 0.0 | Rosemount | Rosemount | Temp Control 2003 |
| Kalgoorlie | 1996 | 2011 | 15 | -3.8 | -1.7 | -0.3 | -0.3 | Rosemount | Rosemount | |
| Kalumburu | 1998 | 2001 | 3 | 24.4 | 54.0 | 0.4 | 0.2 | Rosemount | Rosemount | |
| Karijini North | 2018 | | | 0.8 | | 0.1 | | Rosemount | | |
| Katanning | 1998 | | | -19.8 | | 0.2 | | Rosemount | | |
| Launceston | 2004 | | | 2.0 | | 0.1 | | Rosemount | | |
| Laverton | 1997 | | | 26.6 | | 0.3 | | Rosemount | | |
| Learmonth | 1996 | | | -3.8 | | -0.2 | | Rosemount | | |
| Longreach | 1996 | | | -7.0 | | -0.5 | | Rosemount | | |
| Low Head | 1997 | 2015 | 18 | -1.2 | -4.8 | -0.1 | 0.1 | Rosemount | Rosemount | |
| Mackay | 1996 | 2013 | 17 | -7.0 | 26.8 | -0.1 | 0.5 | Rosemount | WIKA TR40 | |
| Marble Bar | 2000 | 2002 | 2 | 5.4 | 22.3 | 0.3 | 1.0 | Rosemount | Rosemount | |
| Marree | 1998 | 2001 | 3 | 1.4 | 14.0 | 0.5 | 0.5 | Rosemount | Rosemount | |
| Meekatharra | 1996 | 2008 | 12 | -5.6 | 8.7 | -0.5 | -0.1 | Rosemount | Rosemount | |
| Melbourne | 1996 | 2013 | 17 | 22.6 | -14.0 | 0.4 | 0.1 | Unknown | | |
| Mildura | 1996 | 2012 | 16 | 4.8 | 13.5 | 0.6 | 0.7 | Unknown | Rosemount | |
| Miles | 1997 | | | 4.4 | | 0.2 | | Rosemount | | |
| Morawa | 1997 | | | 46.8 | | 0.2 | | Rosemount | | |
| Moree | 1996 | 2000 | 4 | -4.2 | 13.0 | 0.2 | 0.7 | Rosemount | Rosemount | |
| Mt Gambier | 1996 | 2009 | 13 | -2.2 | 5.5 | 0.7 | 0.3 | Rosemount | Rosemount | |
| Nhill | 2003 | 2012 | 9 | 14.2 | -2.7 | 0.2 | 0.2 | Rosemount | Rosemount | |
| Normanton | 2001 | | | 19.4 | | 0.4 | | Rosemount | | |
| Nowra | 2000 | | | 18.4 | | 0.4 | | Rosemount | | |
| Nuriootpa | 1996 | | | -4.2 | | 0.8 | | Rosemount | | |
| Oodnadatta | 1996 | 2012 | 16 | 41.6 | 19.8 | -0.8 | 0.7 | Rosemount | WIKA TR40 | |
| Orbost | 2000 | | | 21.4 | | -0.1 | | Rosemount | | |
| Palmerville | 2001 | | | -6.8 | | 0.2 | | Rosemount | | |
| Perth | 1996 | | | 18.4 | | 0.2 | | Rosemount | | |
| Pt Perpendicular | 2001 | 2015 | 14 | 17.0 | -1.2 | 0.1 | 0.2 | Rosemount | Rosemount | |
| Port Hedland | 1996 | 2000 | 4 | -18.2 | -0.5 | -0.7 | 0.5 | Unknown | Rosemount | |
| Port Lincoln | 1996 | 2002 | 6 | 45.2 | 34.3 | 0.2 | 0.3 | Rosemount | Rosemount | |
| Port Macquarie | 1996 | 2011 | 15 | 15.2 | 21.2 | 0.5 | 0.1 | Unknown | Temp Control | |
| Rabbit Flat | 1997 | | | -22.2 | | -0.5 | | Rosemount | | |
| Richmond NSW | 1996 | 2011 | 15 | -10.0 | 25.5 | 0.4 | 0.2 | Rosemount | Rosemount | |
| Richmond Qld | 1998 | | | 2.8 | | -0.3 | | Rosemount | | |
| Robe | 2003 | | | 7.0 | | 0.1 | | Telmet 320 | | |
| Rockhampton | 1996 | | | -5.0 | | -0.1 | | Rosemount | | |
| Rutherglen | 1998 | | | 13.2 | | 0.6 | | Rosemount | | |
| Sale | 1996 | | | 8.0 | | 0.9 | | Rosemount | | |
| Scone | 1996 | 2011 | 15 | -6.4 | 14.7 | 0.6 | 0.6 | Rosemount | Temp Control | |
| Snowtown | 1998 | | | -9.0 | | 0.6 | | Rosemount | | |
| St George | 1997 | | | -17.2 | | 0.1 | | Rosemount | | |
| Sydney | 1996 | 2011 | 15 | 12.6 | 17.8 | 0.4 | 0.3 | Rosemount | Temp Control | Rosemount 2017 |
| Tarcoola | 1997 | | | -29.6 | | 0.0 | | Rosemount | | |
| Tennant Creek | 1996 | 2006 | 10 | -18.8 | -2.5 | -0.5 | 0.2 | Rosemount | Temp Control | |
| Thargomindah | 1999 | | | 1.6 | | 0.5 | | Rosemount | | |
| Tibooburra | 1997 | | | 7.8 | | -0.1 | | Rosemount | | |
| Townsville | 1996 | 2002 | 6 | 9.6 | 2.0 | -0.2 | 0.3 | Rosemount | Rosemount | |
| Vic River Downs | 1997 | 2009 | 12 | -17.6 | 23.3 | -0.1 | 0.0 | Rosemount | Rosemount | |
| Wagga Wagga | 1996 | | | 6.2 | | 1.0 | | Rosemount | | |
| Walgett | 1997 | | | 32.4 | | -0.3 | | Rosemount | | |
| Wandering | 1998 | | | -2.0 | | -0.3 | | Rosemount | | |
| Weipa | 1996 | 2000 | 4 | 5.6 | 31.0 | 0.1 | 0.2 | Rosemount | Rosemount | |
| Wilcannia | 2000 | | | 20.0 | | 0.2 | | Rosemount | | |
| Williamstown | 1999 | 2016 | 17 | 7.0 | 4.3 | 0.3 | -0.1 | Rosemount | Rosemount | Temp Control 2005 |
| Wilson's Prom | 2000 | | | 31.4 | | 0.1 | | Rosemount | | |
| Woomera | 1996 | 2011 | 15 | -4.6 | 7.7 | 0.3 | 0.2 | Rosemount | Temp Control | |
| Wyalong | 1999 | | | 8.4 | | 0.6 | | Rosemount | | |
| Yamba | 2007 | | | 0.0 | | -0.1 | | Temp Control | | |
| Averages above | 1998.1 | 2008.3 | 11.6 | 4.3 | 12.9 | 0.1 | 0.3 | | | |
| Averages between | 1998.1 | 2008.4 | 10.3 | | | | | | | |
| Averages start after 1996 | 2000.2 | | | 8.0 | | 0.2 | | | | |
| Increased frequency | | | | 15.3 | 16.8 | 0.2 | 0.3 | | | |
| Decreased frequency | | | | -9.8 | -3.6 | -0.0 | 0.2 | | | |

