

CSS2 Customer Requirement Form

Customer	
Address	
Customer Contact	
Phone No.	
Pactrol Contact	
Date samples were requested	
Number of samples required	
Date samples required by	
Date Requirement Form Completed	
Any special requirements ?	
List any critical parameters here	
PAC50022	CSS2 to same spec. as 404700, 404700/V02

Please Note:- All timings are $\pm 0.25s$

Development Software version :- X325/B2
(Allocated by Pactrol Controls)

Feature	Spec.	Notes
Mains Frequency	50Hz	This value is used allow the CSS2 to more accurately set the spark rate.calculate the spark frequency.
Burner type (Non-Fanned)	Non-Fanned	The CSS2 is a non-fanned control
Wait time (2...120s)	12	The wait time is the delay after the start signal has been given and the energisation of the ignition device.
Pre-ignition time (0...60s)	0	The length of time the ignition device is energised before the 1st stage gas valve is opened.
Ignition time (2...60s)	6	The length of time the maximum time the ignition device can be energised during an ignition attempt. Normally this time is the same as the first safety time but it can be shorter.
Safety 1 time (2...60s)	6	The interval between the pilot gas valve, the start gas valve or main gas valve, as applicable, being energized and the pilot gas valve, start gas valve or main gas valve, as applicable, being de-energized if the flame detector signals the absence of a flame.
Pilot Stabilisation Proving (0...60s)	0	The delay between detection of a flame and the 2nd stage valve opening (2 stage control only). This should be set to zero if there is no 2nd stage Gas Valve.
Safety 2 time (0...5s)	0	Period for which the flame is allowed to stabilise after switching the main gas valve on. Note:- During this time flame signal is ignored allowing the burner to settle when the main valve opens.
Lockout Reset Time (2s...5s)	2	The length of time that the lockout reset button must be pressed or lockout reset input switched to neutral in order to reset a lockout. Note:- This timing should normally be set at 2s
Lockout type (Volatile / Non Volatile)	Volatile	Volatile Lockout:- A restart can only be accomplished by either the manual reset of the system, or an interruption of the main power and its subsequent restoration. Non-volatile lockout:- A restart can only be accomplished by a manual reset of the system and by no other means.
On-board Lockout Reset Pushbutton with Indication (Y/N)	N	The CSS2 can be specified with a built-in lockout indicator and manual reset pushbutton..
On-board On/Standby Pushbutton with Indication (Y/N)	N	The CSS2 can be specified with a built-in On/Standby pushbutton with status indicator.
Flame sensor detection point (0.4 to 10uA)	1.5	The detector current above which the control signals the presence of a flame
Flame detector dropout point (0.3 to 9.9uA)	1	The detector current below which the control signals the absence of a flame
Flame failure response time (0.25...3s)	0.5	The length of time the flame detection signal is allowed to disappear when in the run state before the control responds. Note:- This value should be typically 0.5s, the maximum value is normally 1s but some appliance standards allow up to 3s.
Flame failure response (Restore Ignition / Recycle / Lockout)	Restore	Restore:- If the flame signal is lost during the Run state, the control will return to the safety 1 state and restore ignition source without switching off the gas. Recycle:- If the flame signal is lost during the run state the control will shutdown the fan and gas valves, forcing a complete restart of the sequence. Lockout:- If the flame is lost during the run state the control will lockout, closing the gas valve(s) and carrying out a post-purge before switching off the fan.
Spark frequency (1 / 5 / 10 / 25 or 30 / 50 or 60 Sparks per second)	25	For 50Hz mains frequency the fastest rates available are 25 or 50 sparks per second, for 60Hz, the fastest rates are 30 or 60 sparks per second The 50 / 60 Sparks per second rate should not be selected if single probe operation is required. Additional EMC filtering may be required for spark rates over 10 sparks/sec.
Number of Ignition attempts (1)	1	The CSS2 has a single ignition attempt
Ignition Behaviour	Continuous	Continuous:- Keep the ignition source energised throughout the Ignition time. Go to Run:- Turn off the ignition source and release the control into the run state if flame detected (if 2 stage this will begin the pilot proving phase) . Toggle:- Turn off the ignition source if flame detected but remain in the first safety state, restoring ignition if the the flame signal is lost.
Valve Configuration	Intermittent	DBI:- Direct burner ignition (1 stage). DBI - Run:- Direct burner ignition with run indication outout. Intermittent:- Pilot ignition, pilot remains on after main valve opens. Interrupted:- Pilot ignition, pilot switches off after main valve has opened.
2 stage output required	Y	This parameter is automatically selected by the valve configuration
2 stage : Monitored / Unmonitored	Monitored	This parameter is automatically selected by the valve configuration
Gas valve relay switching	Switched Live	By default, the CSS2i switches both just the live pole of the gas valve(s) This parameter is automatically selected, if you require a control which switched both live and neutral to the gas valve(s) please indicate this under Special Requirements
Flame detector type	Phase Sensitive	By default the flame detector on the CSS2 is Phase sensitive This parameter is automatically selected. If you require a non-phase sensitive flame detector please indicate this under Special Requirements, this feature is only available in conjunction with live and neutral pole switching of the gas valve(s)

Note : Any critical features must be listed under special Requirements.