	Symbol	Value	Uncertainty/Status	Description
Arc heater [GyuSub Lee]	$\dot{m}_{\mathrm{N}_2}$	$0\,\mathrm{g/s}$	N/A; pure O_2	N_2 mass flow rate
	$\dot{m}_{\mathrm{O}_2}$	$56.38\,\mathrm{g/s}$	measured[a]	O_2 mass flow rate
	P_0	$167.1\,\mathrm{kPa}$	$\pm 0.05\,\mathrm{psi}$ (aleatoric[b])	Total pres.
	T_0	$298\,\mathrm{K}$	isentropic gas dyn.	Total temp.
	$\bar{I}_{\mathrm{arc}}$	$0.0\,\mathrm{A}$	N/A	Mean arc current
	$\bar{V}_{\mathrm{arc}}$	$0.0\,\mathrm{V}$	N/A	Mean arc voltage
	$\bar{W}_{\mathrm{arc}}$	$0.0\,\mathrm{kW}$	$W_{\mathrm{arc}} = V_{\mathrm{arc}} I_{\mathrm{arc}}$	Mean arc power
Fuel inlet [GyuSub Lee]	$\dot{m}_{\mathrm{H}_2}$	$1.842\,\mathrm{g/s}$	need investigation	H_2 mass flow rate
	$P_{0,F}$	$386.6\,\mathrm{kPa}$	$\pm 0.05\,\mathrm{psi}$ (aleatoric)	downstream fuel valve
	$T_{0,F}$	$298\,\mathrm{K}$	isentropic gas dyn.	downstream fuel valve
Air/fuel nozzle [A. Munafò]	P_S		$\pm 0.05\,\mathrm{psi}$ (aleatoric)[c]	Stat. pres. $15\,\mathrm{mm}$ ups.
	P_{in}	$3.0307\,\mathrm{kPa}$	$\sim P_S$	Inflow pres.
	T_{in}	$94.7686\,\mathrm{K}$	related to $\dot{m}_{\mathrm{N}_2}$, $\dot{m}_{\mathrm{O}_2}$, P_0, P_S	Inflow temp.
	M_{in}	3.2745	related to P_0, P_S	Inflow Mach number
	$Y_{\mathrm{in},k}$	1	pure species	Gas composition
	A		trusted	Area
	$P_{\mathrm{in},F}$	$204.23\,\mathrm{kPa}$	related to $P_{0,F}$	Exit pressure
	$T_{\mathrm{in},F}$	$248.33\,\mathrm{K}$	related to $\dot{m}_{\mathrm{H}_2}$, $P_{0,F}$	Exit temp.
	$M_{\mathrm{in},F}$	1	sonic design	Exit Mach number
	A_F		trusted	Area
	δ[d]		need investigation	Boundary layer

a – based on static pressures across the O_2 control valves; more error analysis needed
b – observational error per measurement
c – will be reported; will provide some validation [GyuSub Lee]
d – under continued investigation [D. Buchta]
Measurement Trusted