

PushCorp FCU1000

Serial Interface Commands

Software Version 3.42

Command Description	Command Mnemonic	Data Direction	Data
Software Version	VER	HOST \leftarrow AFD	Version String
Command Force	CF	HOST \leftrightarrow AFD	-MF .. +MF
Command Force Level	CFL	HOST \Rightarrow AFD	0 .. 15
Tool Number	TN	HOST \leftrightarrow AFD	0 .. 15
Applied Force	AF	HOST \leftarrow AFD	-MAX .. +MAX
Carriage Position	POS	HOST \leftarrow AFD	0.00 .. MAX
Carriage Acceleration	SA	HOST \leftarrow AFD	-1.000 .. +1.000
Active / Retract	ACT	HOST \leftrightarrow AFD	0 or 1
Extend / Retract Limit	LIM	HOST \leftarrow AFD	1 or 0 or -1
E-Stop	ES	HOST \leftrightarrow AFD	0 or 1
Auto Tool Weight	ATW	HOST \Rightarrow AFD	0 .. 15
Tool Weight	TW	HOST \leftrightarrow AFD	0 .. 15, 0.0 .. MW
Force Level	FL	HOST \leftrightarrow AFD	0 .. 15, -20.0 .. +20.0
Contour Mode	CM	HOST \leftrightarrow AFD	0 or 1
Contour Mode Force	CMF	HOST \leftrightarrow AFD	0 .. 8, -MF .. +MF
Retract Limit Position	RLP	HOST \leftrightarrow AFD	0.00 .. ELP
Extend Limit Position	ELP	HOST \leftrightarrow AFD	RLP .. MP
Command Force Interface	CFI	HOST \leftrightarrow AFD	0 or 1 or 2
Active / Retract Interface	ARI	HOST \leftrightarrow AFD	0 or 1
Tool Number Interface	TNI	HOST \leftrightarrow AFD	0 or 1
Save Configuration	SC	HOST \Rightarrow AFD	N / A
Tool Type	TT	HOST \leftrightarrow AFD	Tool Type String
Maximum Force	MF	HOST \leftrightarrow AFD	Floating Point
Maximum Weight	MW	HOST \leftrightarrow AFD	Floating Point
Force Proportional Gain	KFP	HOST \leftrightarrow AFD	Floating Point
Force Integral Gain	KFI	HOST \leftrightarrow AFD	Floating Point
Force Differential Gain	KFD	HOST \leftrightarrow AFD	Floating Point
Controller Enable	CE	HOST \leftrightarrow AFD	0 or 1

Command Description	Command Mnemonic	Data Direction	Data
Position Scale Cal. Factor	PS	HOST ↔ AFD	Floating Point
Position Offset Cal. Factor	PO	HOST ↔ AFD	Floating Point
Force Scale Cal. Factor	FS	HOST ↔ AFD	Floating Point
Force Offset Cal. Factor	FO	HOST ↔ AFD	Floating Point
Acceleration Scale Cal. Factor	AS	HOST ↔ AFD	Floating Point
Acceleration Offset Cal. Factor	AO	HOST ↔ AFD	Floating Point
Force Input Voltage	FV	HOST ← AFD	0.0 .. 10.0
Acceleration Input Voltage	AV	HOST ← AFD	0.0 .. 10.0
Position Input Voltage	PV	HOST ← AFD	0.0 .. 10.0
Position Mode	PM	HOST ↔ AFD	0 or 1
Command Position	CP	HOST ↔ AFD	0.00 .. MP
Position Proportional Gain	KPP	HOST ↔ AFD	Floating Point
Position Integral Gain	KPI	HOST ↔ AFD	Floating Point
Position Differential Gain	KPD	HOST ↔ AFD	Floating Point
Calibrate Force Input	CAF	HOST ⇒ AFD	N / A
Calibrate Acceleration Input	CAA	HOST ⇒ AFD	N / A
Calibrate Position Input	CAP	HOST ⇒ AFD	N / A
Set Defaults	SD	HOST ⇒ AFD	N / A