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TCF-S Temperature Compensating Focuser Serial Interface Protocol

(Valid for TCF-S PIC versions 2.10 and higher)

<u>SYNTAX</u>	Variable Definitions	<u>Function</u>	Return / Response
FMMODE	none	Establish serial connection	!
FAMODE	none	Select Auto-A mode	A
FBMODE	none	Select Auto-B mode	В
Fl <i>nnnn</i>	where nnnn = number of steps to move, [valid input: 0000 to 7000]	Move focuser IN by nnnn steps, [absolute position value decreases]	*
FO <i>nnnn</i>	where nnnn = number of steps to move, [valid input: 0000 to 7000]	Move focuser OUT by nnnn steps, [absolute position value increases]	*
FCENTR	none	Move focuser to Center position [absolute value 3500]	CENTER
FPOSRO	none	Query focuser position	P= <i>nnnn</i>
FTMPRO	none	Query temperature	T= <i>nnnn</i>
FSLEEP	none	Put focuser in low power mode.	ZZZ
FWAKUP	none	Re-establish full power mode.	WAKE
FREADA	none	Query focuser temperature coefficient or slope for Auto-A mode.	A=0 <i>nnn,</i>
FREADB	none	Query focuser temperature coefficient or slope for Auto-B mode.	B=0 <i>nnn,</i>
FLA <i>nnn</i>	where nnn = slope [*] for Auto-A mode.	Load focuser temperature coefficient for Auto-A.	DONE
FLB <i>nnn</i>	where nnn = slope [*] for Auto-B mode.	Load focuser temperature coefficient for Auto-B.	DONE
FFMODE	none	Free focuser from serial mode.	END

A typical temperature coefficient or slope for a 10" SCT at f/10 should be about 100.