

OpenVFD Software Development Guide: Serial Protocol Documentation

Functionality	Type (C/R)	p[0]	p[1]	p[2]	p[3]	p[4]	p[5]	p[6]	p[7]	p[8]	p[9]	p[10]	p[11]	p[12]	p[13]	p[14]	p[15]	p[16]	p[17]	p[18]	p[19]	p[20]	p[21]	p[22]	p[23]	Comments
Set custom color information	C	0x23	0x01	led0, g	led0, r	led0, b	led1, g	led1, r	led1, b	led2, g	led2, r	led2, b	led3, g	led3, r	led3, b	led4, g	led4, r	led4, b	led5, g	led5, r	led5, b	reserved, 0	reserved, 0	reserved, 0	0x24	
Set custom color information (smoothly)	C	0x23	0x02	led0, g	led0, r	led0, b	led1, g	led1, r	led1, b	led2, g	led2, r	led2, b	led3, g	led3, r	led3, b	led4, g	led4, r	led4, b	led5, g	led5, r	led5, b	reserved, 0	reserved, 0	reserved, 0	0x24	
Time date set	C	0x23	0x10	sec	min	hr	day	mo	yr	0x23	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	
Night shift set (New: V2.2r)	C	0x23	0x11	0x23	min, en	hr, en	min, dis	hr, dis	en	en2	0x23	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	en: time set, en2: silent mode enable
Clock configuration set (New: V2.2r)	C	0x23	0x12	cfBit	cfVal	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	cfBit: 0: 12h, 1: int'l date, 3: lzero. cfVal: 0 or 1
Message display	C	0x23	0x1F	msg0, 0	msg0, 1	msg0, 2	msg0, 3	msg0, 4	msg0, 5	msg1, 0	msg 1, 1	msg1, 2	msg1, 3	msg1, 4	msg1, 5	msg2, 0	msg2, 1	msg2, 2	msg2, 3	msg2, 4	msg2, 5	msgT	If0	If1	0x24	msgT: message time, If0/If1: long msg flag
Set LED preset	C	0x23	0x20	psM	psD	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	psM: preset mode, psD: preset specific data
Welcome text custom set (New: V2.1)	C	0x23	0x21	msg0, 0	msg0, 1	msg0, 2	msg0, 3	msg0, 4	msg0, 5	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	
Firmware version request	C	0x23	0x22	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	
Configuration save request	C	0x23	0x33	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	
Configuration reset request	C	0x23	0x34	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	reserved, 0	0x24	
Time date set response	R	0x23	0x10	0x54	0x69	0x6D	0x65	0x20	0x53	0x79	0x24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Firmware version response	R	0x23	0x22	fwStr0	fwStr1	fwStr2	fwStr3	fwStr4	fwStr5	fwStr6	0x24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
What the colors mean	Command /Response	Static control	Dynamic data	Dynamic control	Reserved, Value	n/a																				