

Luminance Meter Communications protocol

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Get current screen

Send: <0x00>, <0x01>, <0x62>

Return

Byte 1	null	Byte 2	Value 1
Byte 3	Value 2	Byte 4	Value 3
Byte 5	Value 4	Byte 6	multiple
Byte 7	K flag	Byte 8	Cd/fl flag
Byte 9	Number 1	Byte 10	Number 2
Byte 11	Number 3	Byte 12	date/time hr value1
Byte 13	date/time hr value2	Byte 14	Date/time flage
Byte 15	Date/time min value1	Byte 16	Date/time min value 2
Byte 17	Date/time flage	Byte 18	Date/time sec value 1
Byte 19	Date/time sec value 2	Byte 20	Date/time dot flage
Byte 21	Apo flage	Byte 22	Rh flage
Byte 23	Pk flage	Byte 24	Rec flage
Byte 25	Mx flage	Byte 26	Mxdashmn flage
Byte 27	Mn flage	Byte 28	Avg1 flage
Byte 29	Hf flage	Byte 30	Ref flage
Byte 31	Acc flage	Byte 32	Up flage
Byte 33	Cmd flage	Byte 34	Dn flage
Byte 35	Af flage	Byte 36	Bf flage
Byte 37	H1 flage	Byte 38	H2 flage
Byte 39	Zero flage	Byte 40	Caf flage
Byte 41	Ccf flage	Byte 42	S flage
Byte 43	Plus flage	Byte 44	L flage
Byte 45	Th flage	Byte 46	Set flage
Byte 47	Delta flage	Byte 48	Ab flage
Byte 49	PercentA flage	Byte 50	Ba flage
Byte 51	Usb flage	Byte 52	Cycle flage
Byte 53	Avg2 flage	Byte 54	No flage
Byte 55	Amra flage	Byte 56	Amrm flage
Byte 57	Amrr flage	Byte 58	Intv flage
Byte 59	Ymd flage	Byte 60	Hms flage
Byte 61	Battery index	Byte 62	null
Byte 63	Null	Byte 64	Percent flage

Get setting blinking control

Send: <0x00>, <0x01>, <0x63>

Byte 1	null	Byte 2	Blinking 1
Byte 3	Blinking 2	Byte 4	Blinking 3
Byte 5	Blinking 4	Byte 6	null

Key function

Send: <0x00>, <0x01>, <0x01>

Press: Light key

Send: <0x00>, <0x01>, <0x09>

Press: mem/Left key

Send: <0x00>, <0x01>, <0x02>

Press: Range key

Send: <0x00>, <0x01>, <0x0A>

Press: Red/Right key

Send: <0x00>, <0x01>, <0x03>

Press: Max/Min key

Send: <0x00>, <0x01>, <0x0B>

Press: A/Up key

Send: <0x00>, <0x01>, <0x04>

Press: Set key

Send: <0x00>, <0x01>, <0x0C>

Press: B/Down key

Send: <0x00>, <0x01>, <0x05>

Press: hold key

Send: <0x00>, <0x01>, <0x0F>

Press: Cmp key

Send: <0x00>, <0x01>, <0x06>

Press: Delta/% key

Send: <0x00>, <0x01>, <0x1B>

Press: Ref key

Send: <0x00>, <0x01>, <0x07>

Press: Enter key

Send: <0x00>, <0x01>, <0x1C>

Press: AVG key

Send: <0x00>, <0x01>, <0x08>

Press: Time key

Send: <0x00>, <0x01>, <0x1D>

Press: ACC key

Interval time set function

Get interval time

Send: <0x00>, <0x01>, <0x19>

Return

Byte 1	null	Byte 2	Interval time (high byte)
Byte 3	Interval time (low byte)	Byte 4	Null

Set interval time

Send: <0x00>, <0x01>, <0x18>, <Interval time (high byte)>, <Interval time (low byte)>

RTC setting function

Get Device RTC

Send: <0x00>, <0x01>, <0x16>

Return

Byte 1	null	Byte 2	Year (high byte)
Byte 3	Year (low byte)	Byte 4	Month
Byte 5	Day	Byte 6	Hour
Byte 7	Minute	Byte 8	Second

Set Device RTC

Send: <0x01>, <0x17>, <Year (high byte)>, <Year (low byte)>, <Month>, <Day>, <Hour>, <Minute>, <Second>

Delete function

Delete All

Send: <0x00>, <0x01>, <0x13>

Return null

Delete single record

Send: <0x00>, <0x01>, <0x12>, <Year 1>, <Year 2>, <Year 3>, <Year 4>, <Month 1>, <Month 2>, <Day 1>, <Day 2>, <Hour 1>, <Hour 2>, <Minute 1>, <Minute 2>, <Second 1>, <Second 2>

Return null

Memory function

Get SD card information

Send: <0x00>, <0x01>, <0x14>

Return

Byte 1	null	Byte 2	Memory Size 1
Byte 3	Memory Size 2	Byte 4	Memory Size 3
Byte 5	Memory Size 4	Byte 6	Memory Size 5
Byte 7	Remain Size 1	Byte 8	Remain Size 2
Byte 9	Remain Size 3	Byte 10	Remain Size 4
Byte 11	Remain Size 5	Byte 12	File total number (high byte)
Byte 13	File total number (low byte)		

Memory Size = size 1 << 32 + size 2 << 24 + size 3 << 16 + size 4 << 8 + size 5

Remain Size = size 1 << 32 + size 2 << 24 + size 3 << 16 + size 4 << 8 + size 5

Get Header information

Example File Total number: 2

Send: <0x00>, <0x01>, <0x10>

Return

Byte 1	null	Byte 2	File 1 Index
Byte 3	Year (high byte) BCD	Byte 4	Year (low byte) BCD
Byte 5	Month BCD	Byte 6	Day BCD
Byte 7	Hour BCD	Byte 8	Minute BCD
Byte 9	Second BCD	Byte 10	File 2 Index
Byte 11	Year (high byte) BCD	Byte 12	Year (low byte) BCD
Byte 13	Month BCD	Byte 14	Day BCD
Byte 15	Hour BCD	Byte 16	Minute BCD
Byte 17	Second BCD	Byte 18	Null

Get File size

Send: <0x00>, <0x01>, <0x15>, <Year 1>, <Year 2>, <Year 3>, <Year 4>, <Month 1>, <Month 2>, <Day 1>, <Day 2>, <Hour 1>, <Hour 2>, <Minute 1>, <Minute 2>, <Second 1>, <Second 2>

Return

Byte 1	null	Byte 2	File Size 1
Byte 3	File Size 2	Byte 4	File Size 3
Byte 5	File Size 4	Byte 6	File Size 5

File Size = size 1 << 32 + size 2 << 24 + size 3 << 16 + size 4 << 8 + size 5

Get File content

Send: <0x00>, <0x01>, <0x11>

Return File content