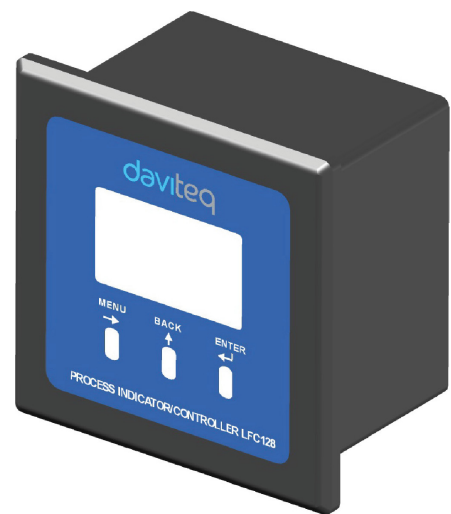


# LFC128

daviteq

- ✓ PROCESS INDICATOR
- ✓ LEVEL CONTROLLER
- ✓ OPEN CHANNEL FLOW METER



FUNCTIONS	
Large LCD Display	Large graphical LCD display 128x64 pixels to display many parameters
Weather-Proof Front	Poly-carbonate window with IR button allow weather-proof
Dimension	116x116x70 mm
IR Touch Button	Robust working in all light conditions, in hash enviroment Much longer working life v.s membrane butons
Input	Analog current input: 4..20mA, voltage input 0..10VDC
Output	Analog output: 4..20mA Standard output: 4xRelays SPDT RS4851 Modbus RTU Communication
Pre Factory Calibration	The product will be tested and calibrate before delivery to customers

SPECIFICATION	
Application	Process Indicator/Controller for Pressure, Temperature, Flow, Level... Open channel Flow Meter
Display/Interface	Large graphical LCD display 128x64 pixels Display many parameters at the same time 3 x IR touch buttons
Functions	Scale to engineer units Alarm setting with hysteresis Independent analog output scale for re-transmission Totalizer function for open channel flow meter version
Units	Pressure: Kpa, Bar, Psi, Kg/cm <sup>2</sup> , mmWater, mmHg,... Temperature: deg C, deg F Volume: ml, liter, m <sup>3</sup> , gallon, oz,... Mass: g, kg, ton, pound,... Length: mm, cm, dm, m, inch, foot,... Customized: max 6 characters Time: second, minute, hour, day
Abm.Temperature/RH	-20 to +60 degC / 95% RH non-condensation
Inputs	1 channel Type: 4..20mA; 0..10VDC
Analog input accuracy	+/- 0.05% of Span
Output	01 x Isolated Analog 4-20 mA 04 x Dry-contact relays 220VAC, 5A, SPDT Option: RS485 (Modbus Protocol)
Analog output accuracy	+/- 0.1% of Span
Housing/Rating	Powder Coated Cast aluminum/IP65 at front
Windows	Poly-carbonate
Supply	220VAC or 24VDC, max 200mA
Panel Mount	Dimension cut out 96x96
ORDERING CODE	
LFC Level Controller	
LFC128	1 x Analog Input 0..10VDC (4-20mA with Shunt resistor) Standard outputs: 4 x Relays SPDT
Power Supply	
DC	24 VDC +/-5%
AC	220VAC +/-10%
Additional output Selection, select multi	
/AO	1x Analog output 4-20mA
/RS485	RS485 Modbus RTU Communication

*\*Example: LFC128 - DC /RS485*

# LFC128

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## MENU TREE

### 1. RESET

- Enter password : to access the RESET menu
- 1.1 Filling
- 1.2 Consumption

### 2.SETUP

- Enter password : to access the SETUP menu

#### 2.1 INPUT

- 2.11 Decimal : 00000, 1111.1, 222.22, 33.333
- 2.12 Unit : mm, cm, m
- 2.13 In1(volt)
- 2.14 Scale1
- 2.15 In2(volt)
- 2.16 Scale2
- 2.17 Offset

#### 2.2 VOLUME

- 2.21 Decimal : 00000, 1111.1, 222.22, 33.333
- 2.22 Unit : L, m3, %

#### 2.3 ALARM

- 2.31 Mode : Level, Volume
- 2.32 Lo Lo Setpoint
- 2.33 Lo Lo Hys
- 2.34 Lo Setpoint
- 2.35 Lo Hys
- 2.36 Hi Setpoint
- 2.37 Hi Hys
- 2.38 Hi Hi Setpoint
- 2.39 Hi Hi Hys

#### 2.4 OUTPUT

- 2.41 Mode : Level, Volume
- 2.42 Span 20mA
- 2.43 Force 4-20mA : 4mA, 20mA for calibrating output

## 2.5 DISPLAY

2.51	Page	:	Page 1, Page 2, Switch 5s, Switch 10s, Switch 20s
2.52	Line 1	:	Level, Volume
2.53	Line 2	:	Level/Volume, Filling, Consumption, Filling NRT, Consumption NRT
2.54	Name		

## 2.6 TOTALIZERS

2.61	Filling		
2.611	Decimal	:	00000, 1111.1, 222.22, 33.333
2.612	Unit	:	L, m3
2.613	Threshold %		
2.62	Consumption		
2.621	Decimal	:	00000, 1111.1, 222.22, 33.333
2.622	Unit	:	L, m3
2.623	Threshold %		

## 2.7 MODBUS

2.71	Mode	:	RTU
2.72	Address	:	1 .. 247
2.73	Baud Rate	:	4800, 9600, 19200
2.74	Parity	:	None, Odd, Even

## 3. POINT LINEARIZATION

	Enter Password	:	to access the PASSWORD menu
3.1	Number of Points	:	2..63
	Point 1	:	Level(mm), Volume(L)
	Point 2		
	...		

## 4. PASSWORD

	Enter Password	:	to access the PASSWORD menu
4.1	New Password		

## 5. ADVANCE:

	Enter Password		
5.1	Calibrate Analog		
	Zero		
	Span		
5.2	Calibrate Output		
	4 mA		
	20 mA		

**DISPLAY:**

Lev	:	Level
Vol	:	Volume
rF	:	Reset Filling
rC	:	Reset Consumption
nF	:	None Reset Filling
nC	:	None Reset Consumption

**ALARM:**

SET_ERR	:	Setup Error
TAB_ERR	:	Point Linearization Error
NO-SIG	:	Analog Input No Signal
UNDER	:	Analog Input Under
OVER	:	Analog Input Over
LOLO	:	Low Low Alarm (Relay 1, Relay 3)
LO	:	Low Alarm (Relay 1)
HI	:	High Alarm (Relay 2)
HIHI	:	High High Alarm (Relay 2, Relay 4)

**TABLE: MODBUS REGISTER**

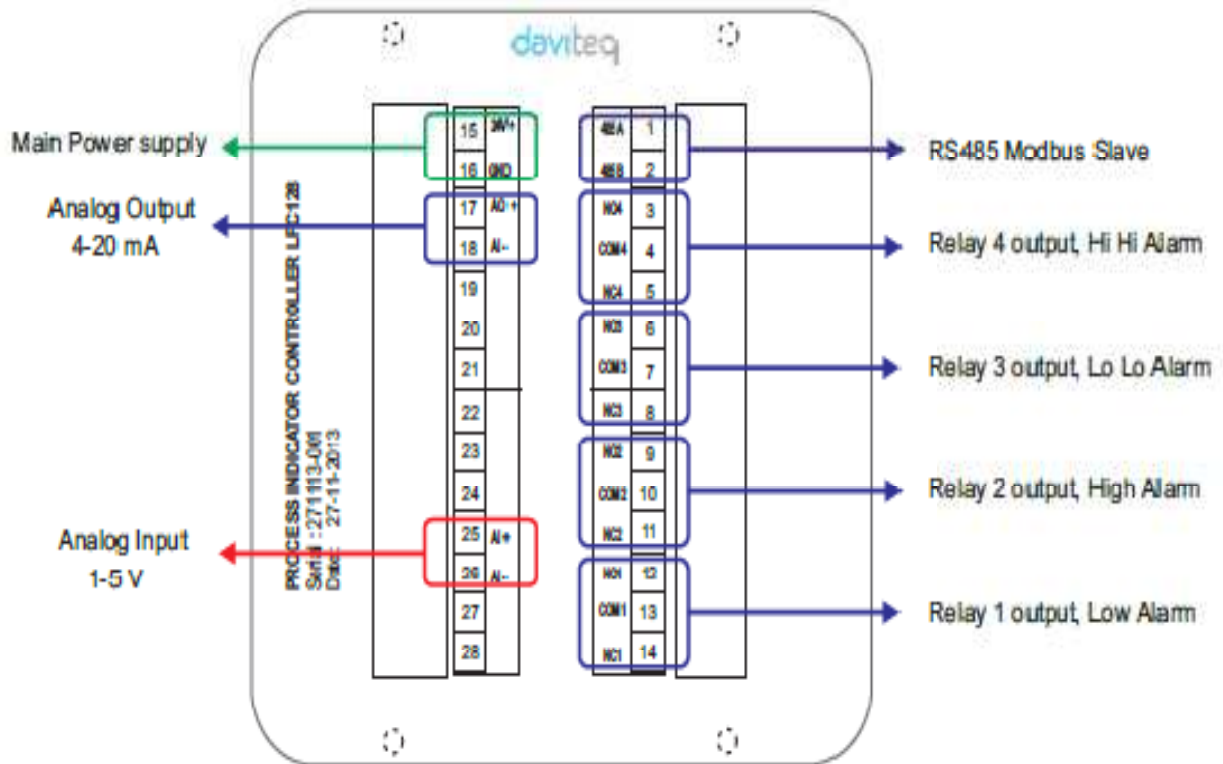
Modbus Register	Hex Address	# of Modbus Register	Description	Format	Properties
30001	0x0000	2	Level	FLOAT	Read
30003	0x0002	2	Volume	FLOAT	Read
30005	0x0004	2	Reset Filling	UINT32	Read
30007	0x0006	2	NRT Filling	UINT32	Read
30009	0x0008	2	Reset Consumption	UINT32	Read
30011	0x000A	2	NRT Consumption	UINT32	Read
30013	0x000C	1	Alarm Status 0 : Normal, No Alarm 1 : Lo Lo 2 : Lo 3 : Hi 4 : Hi Hi	UINT16	Read
30015	0x000E	2	Reset Filling	FLOAT	Read
30017	0x0010	2	NRT Filling	FLOAT	Read
30019	0x0012	2	Reset Consumption	FLOAT	Read
30021	0x0014	2	NRT Consumption	FLOAT	Read

Note:

+ Use function 04

+ Byte and word ordering: high byte first high word first

**WIRING:**



**DIMENSION:**

