SKS4 Steam to Steam Humidifier

Modbus Communication Module User Guide

Introduction

The SKS4 Modbus Communication Module User Guide provides information for using Neptronic® communication feature. The controller uses Modbus communication protocol over serial line in the RTU mode and provides a Modbus network interface between client devices and Neptronic SKS4 devices.
The SKS4 Modbus Guide assumes that you are familiar with Modbus terminology.

The following are the requirements for Modbus:

- *Data Model*. The SKS4 Steam to Steam Humidifier Modbus server data model uses only the Modbus Registers table.
- *Register Address*:
    - As per protocol base (base 0); for PLC add 1 to protocol base.
    - As per holding register (base 400001).
- *Function Codes*. The SKS4 Steam to Steam Humidifier Modbus server supports a limited function codes subset comprising:
    - Read Holding Registers (0x03)
    - Write Single Register (0x06)
    - Write Multiple Registers (0x10)
- *Exception Responses*. The SKS4 Steam to Steam Humidifier Modbus server supports the following exception codes:
    - Illegal data address
    - Illegal data value
    - Slave device busy
- *Serial Line*. The SKS4 Steam to Steam Humidifier Modbus over serial line uses RTU transmission mode over a two-wire configuration RS485 (EIA/TIA-485 standard) physical layer.
    - The physical layer can use fixed baud rate selection or automatic baud rate detection (default) as per the **Modbus Auto Baud Rate** device menu item or holding register index 1.
    - The supported baud rates are 9600, 19200, 38400, and 57600.
    - The physical layer also supports variable parity control and stop bit configuration as per the **Modbus Comport Config** device menu item or holding register index 2.
    - In auto baud rate configuration, if the device detects only consecutive bad frames (2 or more) for one second with any given baud rate, it will reinitialize itself to the next baud rate.
- *Addressing*. The SKS4 Steam to Steam Humidifier device only answers at the following address:
    - The device's unique address (1 to 246) that can be set through the device menu or through holding register index 0.

Modbus Registers

Table Glossary

Name	Description	Name	Description
W	Writable Register	ASCII	For registers containing ASCII (8-bit) characters
RO	Read Only Register	MSB	Most Significant Byte
Unsigned	For range of values from 0 to 65,535, unless otherwise specified	LSB	Least Significant Byte
Signed	For range of values from -32,768 to 32,767, unless otherwise specified	MSW	Most Significant Word
Bit String	For registers with multiple values using bit mask (example, flags)	LSW	Least Significant Word

Modbus Registers Table

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
0	400001	Modbus Address and Product Type.	Unsigned	MSB = Product type, not writable LSB = Modbus Address (1 to 247), writable	W	
1	400002	Device Baud Rate.	Unsigned *Scale 100*	0, 9600, 19200, 38400, and 57600, 0 = Auto Baud *Rate Detection Value/100 (e.g. 38400 baud = 384)*	W	19200
2	400003	Modbus Slave Communication Port Configuration.	Unsigned	0 = No parity, 2 Stop bits 1 = Even parity, 1 Stop bit 2 = Odd parity, 1 Stop bit	W	No parity, 2 Stops bits
3	400004	Product Name (characters 8 & 7).	ASCII	MSB = char 6, LSB = char 7	W	
4	400005	Product Name (characters 6 & 5).	ASCII	MSB = char 4, LSB = char 5	W	
5	400006	Product Name (characters 4 & 3).	ASCII	MSB = char 2, LSB = char 3	W	
6	400007	Product Name (characters 2 & 1).	ASCII	MSB = char 0, LSB = char 1	W	

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
7	400008	Product Actual Firmware Version (in Integer x100).	Unsigned *Scale 100*	1 to 65535 (e.g. 100)	RO	
8	400009	Product Actual EEPROM Version (in Integer x100).	Unsigned *Scale 100*	1 to 65535 (e.g. 100)	RO	
2000	402001	Control Signal.	Unsigned *Scale 1000*	0 to 10500 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2001	402002	Room RH Signal.	Unsigned *Scale 1000*	0 to 10500 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2002	402003	Supply RH Signal.	Unsigned *Scale 1000*	0 to 10500 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2003	402004	Water Level Signal.	Unsigned *Scale 1*	0 to 30000 *Value x 1 (e.g. 10Hz = 10)*	RO	0
2004	402005	Water Level Low Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2005	402006	Water Level High Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2006	402007	Water Temperature Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2007	402008	Foam Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2008	402009	Cabinet Temperature Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2009	402010	Cabinet Temperature Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
2010	402011	Main Power Supply.	Unsigned *Scale 10*	0 to 400 *Value x 10 (e.g. 1V = 10)*	RO	0

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
2011	40**2012**	Steam Valve Feedback Signal.	Unsigned *Scale 1000*	0 to 10500 *Value x 1000 (e.g. 1V=1000)*	RO	0
4000	40**4001**	Steam Output Feedback Signal.	Unsigned *Scale 1000*	0 to 10000 *Value x 1000 (e.g. 1V = 1000)*	RO	0
4001	40**4002**	Local Display Backlight Output.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6000	40**6001**	Control Input.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6001	40**6002**	Room RH.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	RO	0
6002	40**6003**	Supply High Limit RH.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	RO	0
6003	40**6004**	Water Temperature Signal Min.	Unsigned *Scale 1000*	0 to 10000 *Value x 100 (e.g. 1V = 1000)*	RO	0
6004	40**6005**	Water Temperature Signal Max.	Unsigned *Scale 1000*	0 to 10000 *Value x 100 (e.g. 1V = 1000)*	RO	0
6005	40**6006**	Water Temperature.	Unsigned *Scale 100*	0 to 12500 *Value x 100 (e.g. 10C = 1000)*	RO	5000
6006	40**6007**	Water Temperature Min.	Unsigned *Scale 100*	0 to 25000 *Value x 100 (e.g. 10C = 1000)*	RO	0
6007	40**6008**	Water Temperature Max.	Unsigned *Scale 100*	0 to 25000 *Value x 100 (e.g. 10C = 1000)*	RO	12500
6008	40**6009**	Water Temperature Bias.	Unsigned *Scale 100*	-1000 to 1000 Value x 100 (e.g. 10C = 1000)	RO	0
6009	40**6010**	Cabinet Temperature.	Unsigned *Scale 100*	-2000 to 10000 *Value x 100 (e.g. 10C = 1000)*	RO	0

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
6010	40**6011**	HRL Temperature.	Signed *Scale 100*	-4000 to 26000 *Value x 100 (e.g. 10C = 1000)*	RO	0
6011	40**6012**	HRL Humidity.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 1%RH = 100)*	RO	0
6012	40**6013**	Board Temperature.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10C = 1000)*	RO	0
6013	40**6014**	Power Output Feedback.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6014	40**6015**	Water Level.	Unsigned *Scale 10*	0 to 2000 *Value x 10 (e.g. 10% = 100)*	RO	780
6015	40**6016**	Water Probe Low Pos Reading.	Unsigned *Scale 1*	0 to 30000 *Value x 1 (e.g. 1Hz = 1)*	RO	30000
6016	40**6017**	Water Probe High Pos Reading.	Unsigned *Scale 1*	0 to 30000 *Value x 1 (e.g. 1Hz = 1)*	RO	30000
6017	40**6018**	Water Probe Abs Low Pos Reading.	Unsigned *Scale 1*	0 to 30000 *Value x 1 (e.g. 1Hz = 1)*	RO	30000
6018	40**6019**	Water Probe Abs High Pos Reading.	Unsigned *Scale 1*	0 to 30000 *Value x 1 (e.g. 1Hz = 1)*	RO	30000
6019	40**6020**	Room RH Network Reading.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	RO	0
6020	40**6021**	Room RH Setpoint.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	W	4000
6021	40**6022**	Room RH Unoccupied Setpoint.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	W	3000
6022	40**6023**	Room RH Vacant Setpoint.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	W	2000
6023	40**6024**	Room Demand.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
6024	406025	Supply High Limit Network Reading.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	W	0
6025	406026	Supply High Limit Setpoint.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% hum = 1000)*	W	8000
6026	406027	Supply High Limit Demand.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6027	406028	Humidity Control Network Demand.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	W	0
6028	406029	Humidity Control Network High Limit.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	W	10000
6029	406030	Humidity Demand.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6030	406031	SDU Fan Off Delay.	Unsigned *Scale 1*	5 to 20 *Value x 1 (e.g. 5min = 5)*	W	5
6031	406032	Humidity Demand Low Dead Band (0).	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% =1000)*	W	100
6032	406033	Humidity Demand Low Dead Band (1).		0 to 10000 *Value x 100 (e.g. 10% =1000)*		
6033	406034	System Power Output.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6034	406035	System Steam Capacity.	Unsigned *Scale 10*	0 to 30000 *Value x 10 (e.g 10 kg/h = 100)*	RO	0
6035	406036	AFKW Stp (0).	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 10C = 1000)*	RO	3000
6036	406037	AFKW Stp (1).		-4000 to 10000		
6037	406038	AF Keep Warm (0).	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 10C = 1000)*	RO	1000
6038	406039	AF Keep Warm (1).		-4000 to 10000		

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
6039	406040	AF Drain (0).	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 10C = 1000)*	RO	100
6040	406041	AF Drain (1).		-4000 to 10000		
6041	406042	Boiler Demand.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	W	0
6042	406043	Boiler Capacity.	Unsigned *Scale 10*	0 to 30000 *Value x 10 (e.g. 1kg/h = 10)*	RO	150
6043	406044	Boiler Power Output.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 10% = 1000)*	RO	0
6044	406045	Boiler Run Time (0).	Unsigned *Scale 100*	0 to 2147483647 *Value x 100 (e.g. 10h = 1000)*	RO	0
6045	406046	Boiler Run Time (1)		0 to 2147483647		
6046	406047	Boiler Run Time (2).		0 to 2147483647		
6047	406048	Boiler Run Time (3).		0 to 2147483647		
6048	406049	Boiler On Time (0).	Unsigned *Scale 100*	0 to 2147483647 *Value x 100 (e.g. 10h = 1000)*	RO	0
6049	406050	Boiler On Time (1).		0 to 2147483647		
6050	406051	Boiler On Time (2).		0 to 2147483647		
6051	406052	Boiler On Time (3).		0 to 2147483647		
6052	406053	Boiler Service Run Time (0).	Unsigned *Scale 100*	0 to 2147483647 *Value x 100 (e.g. 10h = 1000)*	RO	0
6053	406054	Boiler Service Run Time (1).		0 to 2147483647		
6054	406055	Boiler Service Run Time (2).		0 to 2147483647		
6055	406056	Boiler Service Run Time (3).		0 to 2147483647		

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
6056	406057	Boiler Service On Time (0).	Unsigned *Scale 100*	0 to 2147483647 *Value x 100 (e.g. 10h = 1000)*	RO	0
6057	406058	Boiler Service On Time (1).		0 to 2147483647		
6058	406059	Boiler Service On Time (2).		0 to 2147483647		
6059	406060	Boiler Service On Time (3).		0 to 2147483647		
6060	406061	Boiler Minimum Steam Output.	Unsigned *Scale 1*	1 to 25 *Value x 1 (e.g. 1% = 1)*	W	5
6061	406062	Boiler Drain Interval.	Unsigned *Scale 1*	0 to 24 *Value x 1 (e.g. 1h = 1)*	W	6
6062	406063	Boiler Drain Volume.	Unsigned *Scale 1*	25 to 100 *Value x 1 (e.g. 1% = 1)*	W	100
6063	406064	Boiler Max Steam Output.	Unsigned *Scale 1*	0 to 100 *Value x 1 (e.g. 1% = 1)*	W	100
6064	406065	Boiler Idle Time Drain.	Unsigned *Scale 1*	0 to 72 *Value x 1 (e.g. 1h = 1)*	W	24
6065	406066	Boiler Idle Temperature Setpoint.	Unsigned *Scale 1*	0 to 60 *Value x 1 (e.g. 1°C = 1)*	W	0
6066	406067	Boiler Blowdown Rate.	Unsigned *Scale 1*	0 to 100 *Value x 1 (e.g. 1% = 1)*	W	0
6067	406068	Boiler Service Interval.	Unsigned *Scale 1*	1000 to 3000 *Value x 1 (e.g. 1h = 1)*	W	1000
6068	406069	Boiler Tank Rinse Interval.	Unsigned *Scale 1*	1 to 7 *Value x 1 (e.g. 1 day = 1)*	W	3
6069	406070	Actuator Deadband.	Unsigned *Scale 1*	0 to 25 Value x 1 (e.g. 5 = 5)	W	5

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
6070	40**6071**	Steam Valve Feedback.	Unsigned *Scale 100*	0 to 10000 *Value x 100 (e.g. 1% = 100)*	RO	0
10000	4**10001**	Air Flow.	Unsigned *Scale 1*	0 = Closed 1 = Open	RO	Closed
10001	4**10002**	Supply High Limit.	Unsigned *Scale 1*	0 = Closed 1 = Open	RO	Closed
10002	4**10003**	Interlock.	Unsigned *Scale 1*	0 = Closed 1 = Open	RO	Closed
10003	4**10004**	Binary External Demand.	Unsigned *Scale 1*	0 = 0% 1 = 100%	RO	0%
10004	4**10005**	Water Leak Detection.	Unsigned *Scale 1*	0 = Ok 1 = Leak	RO	Ok
10005	4**10006**	Thermal Cutout.	Unsigned *Scale 1*	0 = Closed 1 = Open	RO	Closed
10006	4**10007**	RS485 Interface.	Unsigned *Scale 1*	0 = No 1 = Yes	RO	No
10007	4**10008**	Ethernet Interface.	Unsigned *Scale 1*	0 = No 1 = Yes	RO	No
10008	4**10009**	Contactors PCB Fuse.	Unsigned *Scale 1*	0 = Normal 1 = Blown Fuse	RO	Normal
10009	4**10010**	Control PCB Fuse.	Unsigned *Scale 1*	0 = Normal 1 = Open Fuse	RO	Normal
11000	4**11001**	Drain Valve.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11001	4**11002**	Alarm Warning Relay.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
11002	4**11003**	Service Warning Relay.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11003	4**11004**	Water Level Valve.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11004	4**11005**	Tank Water Valve.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11005	4**11006**	Drain Cooler Valve.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11006	4**11007**	Drain Pump.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11007	4**11008**	Drain Pump 2.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11008	4**11009**	Drain Pump 3.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11009	4**11010**	SDU Fan	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11010	4**11011**	Alarm LED.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11011	4**11012**	Power LED.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
11012	4**11013**	Buzzer.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
12000	4**12001**	System Production Test Done.	Unsigned *Scale 1*	0 = Inactive 1 = Active	RO	Inactive
12001	4**12002**	Water Level Low.	Unsigned *Scale 1*	0 = Inactive 1 = Active	RO	Inactive

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
12002	4**12003**	Water Level High.	Unsigned *Scale 1*	0 = Inactive 1 = Active	RO	Inactive
12003	4**12004**	Foam Sensor.	Unsigned *Scale 1*	0 = NoFoam 1 = Foam	RO	NoFoam
12004	4**12005**	HRL Lock Setpoint.	Unsigned *Scale 1*	0 = Unlock 1 = Lock	W	Unlock
12005	4**12006**	SDU Fan Fault	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
12006	4**12007**	Boiler Service Operation.	Unsigned *Scale 1*	0 = Not Allowed 1 = Allowed	W	Allowed
12007	4**12008**	Boiler Service Due.	Unsigned *Scale 1*	0 = Off 1 = On	RO	Off
12008	4**12009**	Boiler Foam State	Unsigned *Scale 1*	0 = NotFoaming 1 = Foaming	RO	NotFoaming
15000	4**15001**	System Power State.	Unsigned *Scale 1*	0 = Off 1 = On	W	Off
15001	4**15002**	System Log Verbose Level.	Unsigned *Scale 1*	0 = None 1 = Emergency 2 = Alert 3 = Critical 4 = Error 5 = Warning 6 = Notice 7 = Info 8 = Debug	W	Debug
15002	4**15003**	Modbus Server Units	Unsigned *Scale 1*	0 = Metric 1 = Imperial	W	Metric
15003	4**15004**	Control Profile.	Unsigned *Scale 1*	0 = ExternAnalog 1 = ExternNetwork 2 = InternAnalog 3 = InternNetwork 4 = HRL 5 = Custom	W	ExternAnalog
15004	4**15005**	Modulating High Limit Profile.	Unsigned *Scale 1*	0 = Disabled 1 = ExternAnalog 2 = ExternNetwork 3 = InternAnalog 4 = InternNetwork 5 = Custom	W	Disabled

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
15005	4**15006**	Occupancy State.	Unsigned *Scale 1*	0 = Occupied 1 = Unoccupied 2 = Vacant 3 = Off	RO	Occupied
15006	4**15007**	Room RH Source.	Unsigned *Scale 1*	0 = None 1 = RoomRH 2 = Network	W	None
15007	4**15008**	Room RH Setpoint Source.	Unsigned Scale 1	0 = None 1 = Internal 2 = ControlInput	W	None
15008	4**15009**	Supply High Limit Reading Source.	Unsigned Scale 1	0 = None 1 = SuppyHLRH 2 = Network	W	None
15009	4**15010**	Supply High Limit Setpoint Source.	Unsigned *Scale 1*	0 = None 1 = Internal 2 = ControlInput	W	None
15010	4**15011**	Humidity Control Demand Source.	Unsigned *Scale 1*	0 = None 1 = ControlInput 2 = RoomDemand 3 = Network	W	ControlInput
15011	4**15012**	Humidity Control High Limit Source.	Unsigned *Scale 1*	0 = None 1 = ControlInput 2 = SupplyHLDemand 3 = Network	W	None
15012	4**15013**	Humidity Control Cutout State.	Unsigned *Scale 1*	0 = Off 1 = Normal 2 = LowLimit 3 = HighLimit 4 = NoAirFlow 5 = Interlock	RO	Off
15013	4**15014**	SDU Fan Target.	Unsigned *Scale 1*	0 = None 1 = SDUFan	W	None
15014	4**15015**	Boiler Request.	Unsigned *Scale 1*	0 = None 1 = Reset Alarms 2 = Drain 3 = Reset Counters 4 = Filling 5 = WaterCalib	W	None
15015	4**15016**	Boiler State.	Unsigned *Scale 1*	0 = Off 1 = Idle 2 = LineRinse 3 = TankRinse 4 = Filling 5 = Draining 6 = Heating 7 = Boiling 8 = Alarm	RO	Off

Protocol Base	Holding Register	Description	Data Type	Units, Limits, State Texts	Writable	Default Value
15016	4**15017**	Boiler Fill Mode.	Unsigned *Scale 1*	0 = OneShot 1 = Pulsed	W	Pulsed
15017	4**15018**	Boiler Alarm.	Unsigned *Scale 1*	0 = Normal 1 = FailedPump 2 = FillTimeout 3 = BlockedPiping 4 = HeatTimeout 5 = Overheat 6 = WaterLeak 7 = Service 8 = Foaming	RO	Normal
15018	4**15019**	Boiler Tank Rinse Idle.	Unsigned *Scale 1*	0 = Off 1 = On	W	On
15019	4**15020**	Boiler Tank Rinse Off.	Unsigned *Scale 1*	0 = Off 1 = On	W	Off
15020	4**15021**	Water Probe Auto Calib.	Unsigned *Scale 1*	0 = None 1 = Once 2 = Always	W	Always

Notes

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