



Remote control opening and closing



Protocol to read remote control status



Stable performance,
Reliable and safe



Sustainable power supply

Application scenarios

Electricity Protection, Sustainable Electricity



Electrified railway station as power supply, transportation power distribution system, highway electromechanical system



Smart mining, factory electricity, base station



Environmental Monitoring Station, Remote Irrigation,
Smart Greenhouse

Technical parameter

Electrical Characteristics		
Standard	EN 50557	
Power Distribution System	TT - TN - S	
Rated Voltage(Ue)	(V) 230 AC (1)	
Min Rated Voltage(Min Ue)	(V) 85% Ue	
Max Rated Voltage(Max Ue)	(V) 110% Ue	
Rated Insulation Voltage(Ui)	(V) 500	
Dielectric Strength	(V) 2500 AC for 1 minute	
Rated Withstand Voltage(Uimp)	(kV) 4	
Over-voltage Category	III	
Rated Frequency	(Hz) 50	
Breaking Capacity of Earthleakage(IΔm)	(A) The IΔm of Related Breaker	
Rated Residual Short Circuit Current (IΔc)	(A) The IΔc of Related Breaker	
	2	4
	1P - 2P - 3P - 4P	
MCB Type	C - D	
MCB Type	AC - A - A[IR] - A[S]	
RCBO Type		
Rated Current(In)	(A) 25 - 40 - 63 - 80 - 100	
Rated Residual Current(IΔn)	(mA) 30 - 100 - 300 - 500	
Rated non-operating resistance between electrical components and earth	8 (30mA) - 2.5 (100/300/500mA)	
Rated working resistance between live parts and earth	(kΩ) 16 (30mA) - 5 (100/300/500mA)	
Static Power	(VA) 1	1
Power of remote control	(VA) 20	20
Mechanical Characteristics		
The Width of DIN Module	1	1
Max Operation Frequency	(oper./h) 30	
Maximum mechanical durability (total number of operations)	10000	
Terminal Part of Breaker	(mm ²) Soft Cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10 hard wire: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10	
Circuit breaker rated tightening torque	(Nm) 3 (IDP) - 2 (IDP NA)	
Installation location	any	
Protection Grade of Circuit Breaker	IP20 () - IP40 ()	
Environment Characteristics		
Pollution Grade	2	
Work Temperature	(-25 +60 °C)	-25 +60
Storage Temperature	(-40 +70 °C)	-40 +70
Relative Humidity	55°C - RH 95%	
Communication parameters		
BAUD	Default as 9600, Configurable	
Check Digit	No Check digit	
Data Digit	8	
Stop Digit	1	
Device Address	Factory Default Address:1	
Remote control function		
Auxiliary contacts for remote operating status access	•	
Internal Electrical Protection	PTC	PTC



RCD Remote Control Device MT53RS Series

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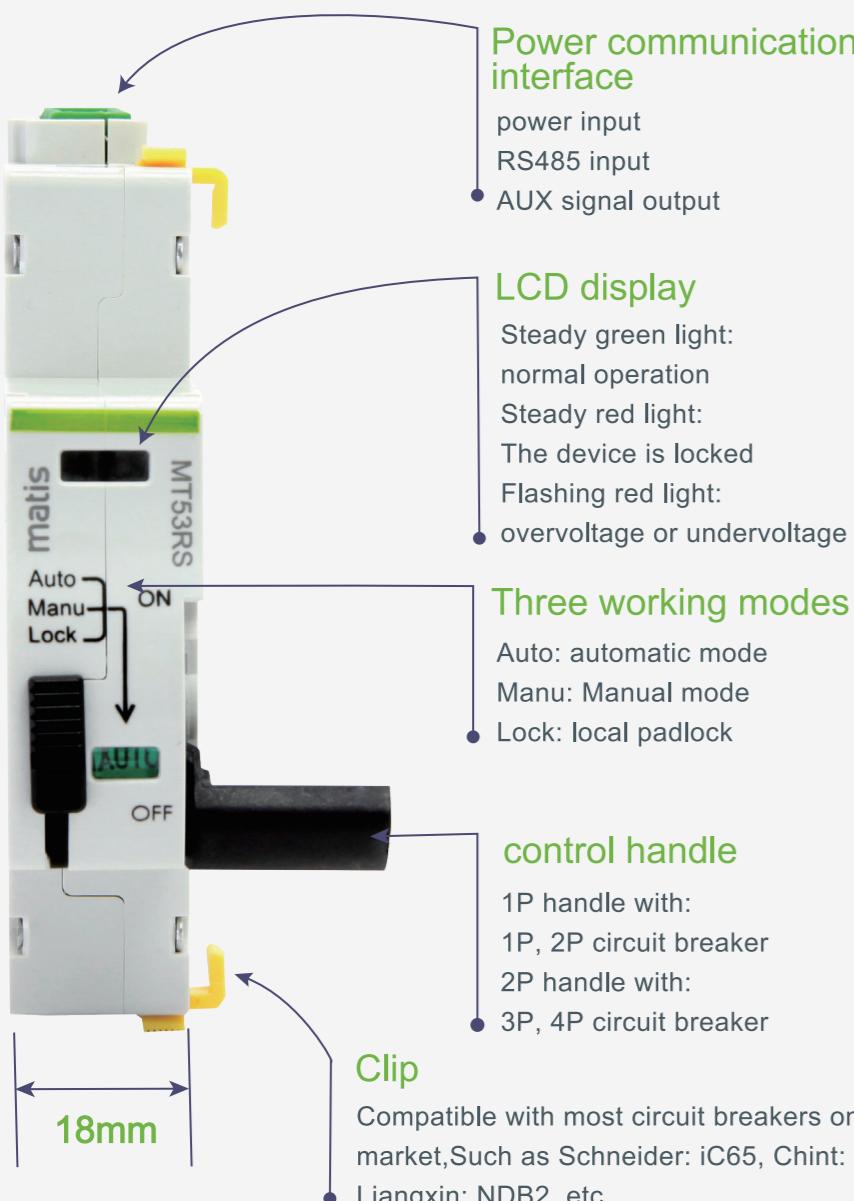
Power on with intelligence, safer and more efficient.



RCD Remote Control Device MT53RS

RCD_MT53RS Remote control device can achieve the following functions:

- Remote closing/opening circuit breaker, the circuit breaker can be equipped with residual current action protection accessories or other electrical accessories
- Resetting of a tripped circuit breaker, subject to compliance with current safety regulations
- Local control of circuit breaker with handle
- Safe operation on site with padlock attachment



There are 2 optional actions after the circuit breaker has tripped:

- AUTO mode: allow remote reset
- MANU mode: Disable remote reset

RCD remote control device ensures sustainable power supply

Remote control device

The MT53RS automatic recloser series is a compact control unit with a width of only 18MM, can be adapted to the miniature circuit breakers of Schneider, Liangxin, Chint and many other manufacturers on the market.

RS485_Modbus control

When the MT53RS is in Auto mode, connect the device to the power supply, and the device is in the open state. It can use RS485 for remote control, control the opening and closing of the device, and can also perform operations such as status reading and address reading through the Modbus protocol.

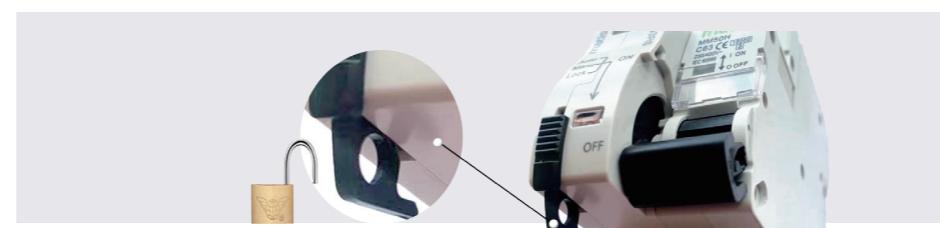


More flexible adaptation

Compatible with circuit breakers 1P, 2P, 3P, 4P

Local padlock

Safety locking, the MT53RS series has a mechanical padlock mechanism to adjust the working mode to Padlock mode, local locking. Make sure that the operator performs maintenance work in a safe state.



Product adaptation

Circuit Breaker	pole(s)	MCB		RCD		RCBO					
		1P	2P	3P/4P	2P	4P	1P	2P	3P	3P+N	4P
MT53RS	1P	✓	✓		✓	✓	✓	✓	✓		
MT53RS	2P			✓						✓	✓
MT53RS	3P	✓									
MT53RS	4P		✓								

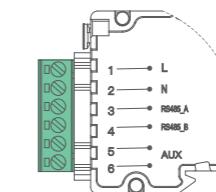
Note:

■ represents matching circuit breakers, which are W [Matis 50 series], K [Matis 90 series], H [Matis 22 series], J [Matis 60 series], N [Schneider Acti 9 series MCB/RCBO], N [Schneider Acti 9 series RCD iID], Z [Chint NB1 MCB], C [Chint NL1 RCCB];

■ represents the status output function, which are 01 [NC Aux], 10 [NO Aux], and no coding [no Aux function];

■ represents voltage, respectively E[DC24–48V], F[DC110V], G[DC220V], N[AC220V]

Terminal picture



Port	Explanation
L	Live Line
N	Neutral line
RS485_A	Modbus protocol
RS485_B	Modbus protocol
AUX	Opening and closing status output

The RCD_MT53RS remote control accessory with AUX interface can realize the following functions:

- Realize fast and reliable communication connection with intelligent gateway module (host computer) through RS485 wiring
- "OF" passive dry contact realizes remote indication

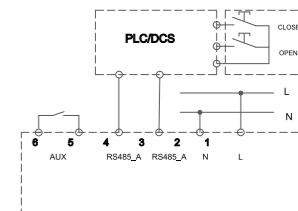
Wiring diagram

Working mode: RS485control opening and closing

RS485_A:Modbus protocol

RS485_B:Modbus protocol

AUX: output of opening and closing status



Dimensions

