Ardbox Connector	Arduino Pin RS-485 HD*	Arduino Pin RS-485 FD*	Function	B - A + Z-/A0.1 Y+/A0.0
B-	-	-	RS485	R4/_
A+	-	-	RS485	
Z-/A0.1	11	-	RS485/Analog Output	R5.
Y+/A0.0	13	-	RS485/Analog Output	
R4	5	5	Relay 4 Out	-₀℃ 10.9 10.8
R5	3	3	Relay 5 Out	-o(5)- 10.7 -o(5)- 10.6
10.9	23	23	Analog/Digital Input	
10.8	22	22	Analog/Digital Input	-o⊙o− 10.4* -o − 10.3
10.7	21	21	Analog/Digital Input	
10.6	20	20	Analog/Digital Input	ation at the state of the state
10.5 ¹	19	19	Analog/Digital Input	
I0.4 ¹	18	18	Analog/Digital Input	R6/L
10.3 ²	8	8	Digital Input	
10.2 ²	4	4	Digital Input	L. H. H. L. H. L. L. H. L. L. H. L. L. H. L.
10.1	12	12	Digital Input	x Region of the state of the st
10.0 ¹	2	2	Digital Input/ Interrupt	Ardbox Relay 20 IOS PLC S.AB20REL.HF * Note: use correctly configuration for use this signal. (see user guide)
R6	7	7	Relay 6 Out	4 8 4 8 8 6 F
R7 ¹	0	0	Relay 7 Out	
R8 ¹	1	1	Relay 8 Out	

Base (common unit)			ON OFF NC Half / Full R5 / SCL I0.0 / SDA ON OFF	
LEFT ZONE			RE-RS485 10.4 DE-RS485	
Ardbox Connector	Arduino Pin RS-232 HS*	Arduino Pin RS-232 SS*	Function	MISO MOSI SCK RESET 5Vdc GND
MISO MOSI SCK RESET 5VdC GND RX-RS-232 ^{1,2} TX-RS-232 ^{1,2} SDA-PIN2 ¹ SCL-PIN3 ¹	14 16 15 - - 0 1 2	14 16 15 - - 8 4 2 3	SPI-MISO SPI-MOSI SPI-CLOCK SPI-RESET 5V Output GND Serial/RS232 Serial/RS232 I2C/SPI SS I2C/SPI SS	RX RS232 TX SDA-PIN2 SCL-PIN3 Pg
R1 R2 R3 GND	10 9 6	10 9 6	Relay 1 Out Relay 2 Out Relay 3 Out GND	∑ R3
24V HS*: Hardv	ı - vare .	- Seria	-	GND 24V POWER 24V

PORTS	PINS	WHAT IS IT	PROGRAM NAMES
R1	10	10V - BOTTOM VALVE - STORAGE ROOM	valveOneOut
R2	9	10V - UPRIGHT VALVE - STORAGE ROOM	valveTwoOut
R3	6	10V - UPRIGHT VALVE - CLEANING ROOM	valveThreeOut
R4	5	GREEN LED ONE	greenLightOne
R5	3	RED LED ONE	redLightOne

R6	7	GREEN LED TWO	greenLightTwo
R7	0	RED LED TWO	redLightTwo
R8	1		
A.0	13	FAN 1 - STORAGE ROOM	fanOne
A.1	11	FAN 2 - CLEANING ROOM	fanTwo
10.0	2		
IO.1	12		
10.2	4		
10.3	8	VALVE THREE INPUT	valveThreeIn
10.4	18	VALVE TWO INPUT	valveTwoIn
IO.5	19	VALVE ONE INPUT	valveOneIn
IO.6	20	RED BUTTON TWO	redButtonTwo
10.7	21	GREEN BUTTON TWO	greenButtonTwo
IO.8	22	RED BUTTON ONE	redButtonOne
10.9	23	GREEN BUTTON ONE	greenButtonOne

Void	WHAT IT NEEDS TO DO
greenButtonOptionOne	If ether of green buttons are pressed -> both green lights to flash 1 time then stay on -> fan 1 and fan 2 to got to fanSpeedOne for 4h and then off for 20h looping forever — valve 1 = closed, valve 2 = open, valve 3 = closed

greenButtonOptionTwo	If ether of green buttons are pressed and held for 5seconds -> both green lights to flash 2 time then stay on -> fan 1 and fan 2 to got to fanSpeedOne for 2h and then off for 10h looping forever — valve 1 = closed, valve 2 = open, valve 3 = closed
redButton	If ether of red buttons are pressed -> fan to go to fanSpeedTwo for 1 min with both red lights flashing on and off for 1 minute -> both fans stop and light stays red — valve 1 = closed, valve 2 = open, valve 3 = closed
serviceMode	If both red and green buttons are pressed on ether of the stations — valve 1 = open, valve 2 = open, valve 3 = open both fans off red and green lights flashing on and off till ether of red buttons are pressed for 5 seconds
fanSpeedOne	Both fans @20% 0-10v signal
fanSpeedTwo	Both fans @5% 0-10v signal
Error	If any of the valves don't open flash red on and off