

Features: RWF40 to RWF55 (and RWF50)

Jan 17, 2014

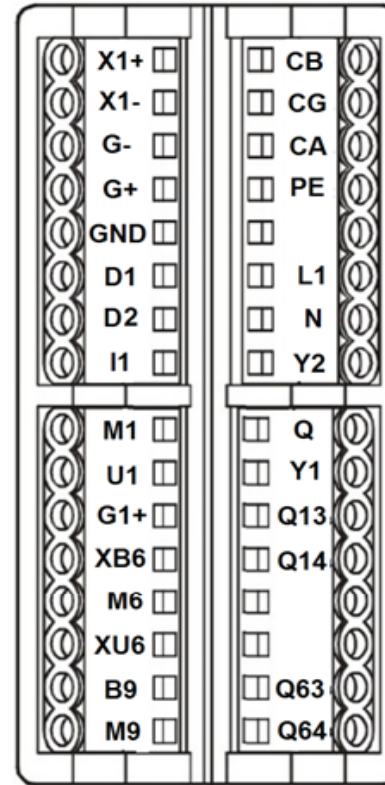


Description	RWF40.00x 3 models	RWF55.50A9 ModBUS	RWF50.20A9 3-position	RWF50.30A9 Analog	Notable Differences between RWF40 and RWF55
Burner ON/OFF	YES	YES	YES	YES	No Change
Analog Input 1	YES	YES	YES	YES	Added: 135 ohm, DC 0..5V, DC 1..5V Removed: Ni100 2-wire, Ni100 3-wire Added: DC 0..5V, DC 1..5V Removed: DC 0..1V Removed: Ni1000 2-wire
Analog Input 2			NO	NO	
Analog Input 3			NO	NO	
*Analog Output	YES	YES	NO	YES	No Change NOTE: D1 and D2 features have changed between RWF40 and RWF55
3 Position Output			YES	NO	
Staged Output			NO	NO	
*Analog Output Options	NO	YES	NO	YES	NEW! Options to output: standard angular position, analog 1, analog 2, analog 3
120 to 240 VAC Main	YES	YES	YES	YES	No Change Universal supply voltage! 24VAC supply available to drive sensor inputs!
24 VDC Power Supply	YES	YES	YES	YES	
Thermal shock (ramping)	NO	YES	YES	YES	NEW! Added thermal shock feature with ramp options and boundaries. Essentially "guaranteed ramp rate" control option with indicator LED
Binary input D2 (old D1)	YES	YES	NO	NO	NEW! Added a option to get input for Burner alarm, and added point to ModBUS
Outdood Reset	YES	YES	NO	NO	NEW! P and H are gone! (4) new parameters to configure Simply enter temperatures! : outside 1, burner 1, outside 2, burner 2
K6 Function	YES	YES	NO	NO	No Change
USB interface	NO	YES	YES	YES	NEW! USB port for programming and backup to a PC
Physical Size (mm)	96Hx48Wx112D	96Hx48Wx112D	48Hx48Wx92D	48Hx48Wx92D	No Change from RWF40 to RWF55, RWF50 is half the height
Menu Display Options	NO	YES	YES	YES	NEW ! on the RWF5x
ModBUS	YES	YES	NO	NO	RWF40.002 model ONLY, standard on RWF55, NEW! with indicator LED

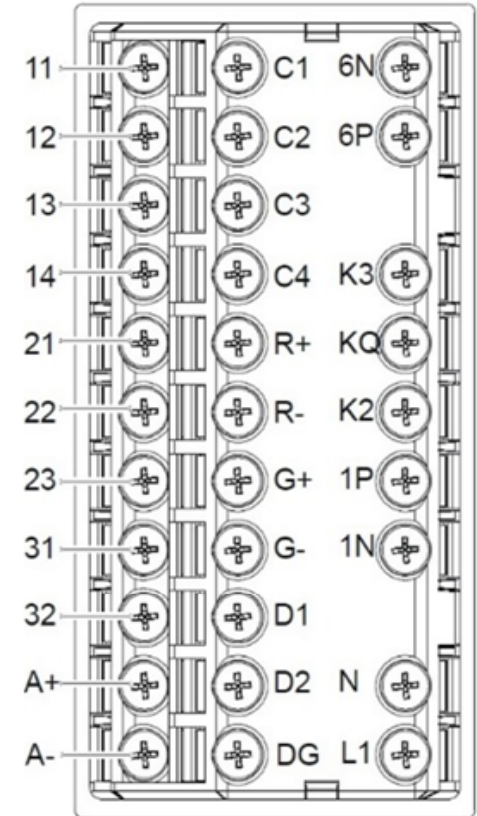
Terminals: RWF40 to RWF55 (and RWF50)

Description	RWF40.00x 3 Versions	RWF55.50A9 ModBUS	RWF50.20A9 3-position	RWF50.30A9 Analog
Burner ON	Q13 Q14	1N 1P	1N 1P	1N 1P
3-position	Y1 Q Y2	K2 KQ K3	K2 KQ K3	
K6	Q63 Q64	6N 6P		
Analog Output	X1+ X1-	A+ A-		A+ A-
Analog Input 1	G1+ I1 U1 M1	11 12 13 14	11 12 11 13	11 12 11 13
Analog Input 2	XB6 XU6 M6	21 22 23		
Analog Input 3	B9 M9	31 32		
Binary Input = Staging	D1	D2		
Binary Input = Setpoint	D2	D1	D1	D1
Binary Input Common	GND	DG	DG	DG
MAIN Power Supply	L1 N PE	L1 N	L1 N	L1 N
24 VDC Power Supply	G+ G-	G+ G-	G+ G-	G+ G-
ModBUS	CA CB CG	R+ R-		

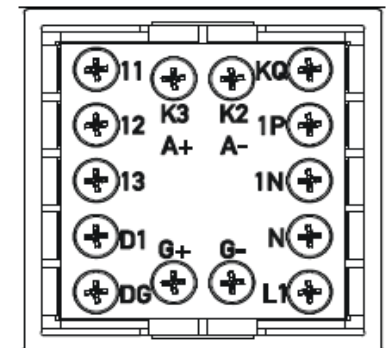
RWF40.x



RWF55.50A9



RWF50.x0A9



Menu: RWF40 to RWF55 (and RWF50)

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Description	Display	RWF40.00x	RWF55.50A9	RWF50.		
				20A9	30A9	
Menu path						
Setpoint 1	SP1	User level	Opr ->	YES		
Setpoint 2	SP2		Opr -> InP3 (tA)	NO		
* Outdoor temp	tA		Opr -> (operation)	YES		
Setpoint	dSP			NO		
Analog Input 1	InP1	YES				
Analog input 2	InP2	N/A	NO			
Analog input 3	InP3	User level (tA)	YES			
External setpoint	SPE	User level	YES			
Angular positioning	Y					
Proportional band	Pb1	Para level	PARa ->	YES		
Derivative time	dt		(PID)			
Integral time	rt					
Dead band	db	Para level	PARa ->	YES	NO	
Running time	tt		(3-position)			
Heating Switch-on	HYS1	Para level	PARa ->	YES		
Heating Stage 2	HYS2		(heating)			
Heating Switch-off	HYS3					
Cooling Switch-on	HYS4	N/A	PARa ->	YES		
Cooling Stage 2	HYS5		(cooling)			
Cooling Switch-off	HYS6					
Response (smart low fire)	q	Para level	PARa ->	YES		
Outside temp. curve pt 1	At1	Para level Calculated by: H and P	PARa ->	NO		
Boiler temp. curve pt 1	Ht1		(outdoor reset)			
Outside temp. curve pt 2	At2					
Boiler temp. curve pt 2	Ht2					
Analog input 1 sensor	SEn1	Config C111	ConF -> Inp -> Inp1 -> (analog input 1)	YES		
Analog input 1 correction	OFF1	Config level				
Analog input 1 scale low	SCL1					
Analog input 1 scale high	SCH1					
Analog input 1 filter time	dF1					
Temperature unit	Unit			Config C113		
Analog input 2 function	FnC2	Config C111	ConF -> Inp -> Inp2 -> (analog input 2)	NO		
Analog input 2 sensor	SEn2	Config level				
Analog input 2 correction	OFF2					
Analog input 2 scale low	SCL2					
Analog input 2 scale high	SCH2					
Analog input 2 filter time	dF2			N/A		

Description	Display	RWF40.00x	RWF55.50A9	RWF50.			
				20A9	30A9		
Menu path							
Analog input 3 sensor	SEn3	Config C111	ConF -> Inp -> Inp2 -> (input 3)	NO			
Analog input 3 function	FnC3		Config level				
Analog input 3 correction	OFF3						
Analog input 3 filter time	dF3						
Controller type(3-pos, mod)	CtYP	Config C112	ConF -> Cntr -> (controller)	N/A			
Operating action (heat,cool)	CACt	N/A					
Setpoint low limit	SPL	Config level					
Setpoint high limit	SPH						
Lower working range limit	oLLo						
Upper working range limit	oLHi						
Thermal shock function	FnCt	N/A	ConF -> rAFC -> (thermal shock)	YES			
Ramp slope	rASL						
Tolerance band ramp	toLP						
Ramp limit value	rAL						
Alarm limit function	FnCt	Config C112	ConF -> (K6)	NO			
Alarm limit value	AL	Para level					
Switching difference	HYSst	Config C113					
Out of range response	ACrA						
Analog output function	FnCt	N/A	ConF -> OutP -> (output)	NO	YES		
Analog output signal type	SiGn	Config C112					
Value when out of range	rOut	N/A					
Re-transmit scale low	OPnt						
Re-transmit scale high	End						
Binary input 1 Setpoint	bin1	Config C111	ConF -> binF (binary)	YES			
Binary input 2 Staging	bin2	N/A	NO				
Upper display	diSU	N/A	ConF -> diSP -> (display)	YES			
Lower display	diSL						
Timeout	tout						
Decimal places	dECP			Config C113			
Locking of levels	CodE			Config C112			
Baud rate	bdrT	Config C113	ConF -> IntF -> (interface)	NO			
Modbus address	Adr	Config level					
Remote detection timer	dtT						
* Heating curve slope	H	Para level	ParA -> At1, Ht1, At2, Ht2	NO			
* Parallel displacement	P						

* NOTE: Shaded items refer to RWF40 ONLY