

Horstmann Programmer Compatibility Guide

Direct plug in replacement

Direct plug in replacement with simple wiring changes*

Replacement and re-wiring of backplate required*

Replace backplate but terminal connections remain the same

*Please see wiring comparison tables located in this guide

Manufacturer Model

		Electro-mechanical	Electronic	24 Hour	5 /2 day	7 day	Single Channel	Two Channel	Single Circuit	Two Circuit	1.5 circuits	Timeswitch	Mini-Programmer	Programmer	Common Time Base	Recommended Replacement
DANFOSS	102	●		●			●			●			●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	102E		●				●								●	CentaurPlus C21 or ChannelPlus H21XL
	102E5		●		●		●						●		●	CentaurPlus C27 or ChannelPlus H27XL
RANDALL	102E7		●		●	●				●			●		●	CentaurPlus C27 or ChannelPlus H27XL
	103	●		●			●		●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	103E		●	●			●		●			●				CentaurPlus C11 or ChannelPlus H11XL
	103E5		●	●			●		●			●				CentaurPlus C17 or ChannelPlus H17XL
	103E7		●		●	●	●		●			●				CentaurPlus C17 or ChannelPlus H17XL
	3001	●		●			●		●			●				425 Coronet or ChannelPlus H11XL
	3002	●		●			●			●				●	●	425 Diadem/Tiara or ChannelPlus H21XL
	3060	●		●			●				●		●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	4033	●		●			●			●			●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	3020P	●		●			●				●		●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	911		●	●			●		●			●				CentaurPlus C11 or ChannelPlus H11XL
	917		●			●	●		●			●				CentaurPlus C17 or ChannelPlus H17XL
	922		●	●			●		●					●		CentaurPlus C21 or ChannelPlus H21XL
	971		●			●	●		●			●				CentaurPlus C17 or ChannelPlus H17XL
	972		●			●	●		●					●		CentaurPlus C27 or ChannelPlus H27XL
	CP15		●	●										●	●	CentaurPlus C21
	CP75		●			●	●		●					●	●	CentaurPlus C27
	CP715		●	●	●	●		●						●	●	CentaurPlus C27
	FP15		●	●					●							CentaurPlus C21
	FP75		●				●		●					●		CentaurPlus C27
	FP715		●	●	●	●								●		CentaurPlus C27
	FP975		●		●		●							●		ChannelPlus H27XL
	MP15		●				●				●			●	●	CentaurPlus C21
	MP75		●								●		●		●	CentaurPlus C27
	SET1/SET1E		●				●		●			●				ChannelPlus H11XL
	SET2/SET2E		●	●			●				●		●		●	ChannelPlus H21XL
	SET3E		●				●			●				●	●	ChannelPlus H21XL
	SET3M	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	SET4		●		●		●		●			●				ChannelPlus H17XL
	SET5		●		●					●				●	●	ChannelPlus H27XL
	TS15		●	●			●		●			●				CentaurPlus C11
	TS75		●			●	●		●			●				CentaurPlus C17
	TS715		●	●	●	●			●			●				CentaurPlus C17
	TS975		●		●	●	●					●				ChannelPlus H17XL
DRAYTON/ ACL/INVENSYS	LP 111		●	●			●		●			●				CentaurPlus C11
	LP 112		●	●			●			●				●	●	CentaurPlus C21
	LP 241		●	●				●		●						CentaurPlus C21
	LP 522		●		●			●						●		CentaurPlus C27
	LP 711		●			●	●		●			●				CentaurPlus C17
	LP722		●				●		●					●		CentaurPlus C27
	LS 111		●	●			●		●			●				CentaurPlus C11
	LS 112		●								●		●		●	CentaurPlus C21 or ChannelPlus H21XL
	LS 241		●	●				●		●				●		CentaurPlus C21
	LS 522		●		●			●		●				●		CentaurPlus C27
	LS 711		●				●		●			●				CentaurPlus C17
	LS 722		●			●	●		●					●		CentaurPlus C27
	FP	●					●		●					●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	MP	●		●			●		●			●			●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	TC	●		●			●		●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	Switchmaster 300								●							425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	Switchmaster 320/350	●		●			●				●		●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	Switchmaster 400	●		●			●				●		●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	Switchmaster 600	●		●			●				●		●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	Switchmaster 805	●		●			●						●	●		425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	Switchmaster 900/905	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	Switchmaster 9000/9001		●						●					●	●	CentaurPlus C21 or ChannelPlus H21XL
	Switchmaster 980	●		●			●		●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	Switchmaster Sonata	●	●			●		●		●				●		CentaurPlus C27 or ChannelPlus H27XL
	SM1	●		●			●		●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	SM2	●							●					●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	Tempus 1		●	●			●		●			●				CentaurPlus C11 or ChannelPlus H11XL
	Tempus 2		●		●		●		●			●				CentaurPlus C17 or ChannelPlus H17XL
	Tempus 3		●	●			●		●					●	●	CentaurPlus C21
	Tempus 4		●		●		●			●				●	●	CentaurPlus C27
	Tempus 6		●	●			●							●	●	CentaurPlus C21
	Tempus 7		●			●	●		●					●	●	CentaurPlus C27
	Tempus 6-2		●	●	●			●		●						CentaurPlus C27
	Tempus 7-2		●		●	●	●		●					●		CentaurPlus C27
	Tempus 1-Mk2		●	●	●		●		●							CentaurPlus C17 or ChannelPlus H17XL
	Tempus 2-Mk2		●		●	●										CentaurPlus C17 or ChannelPlus H17XL
GLOWORM	Masterminder	●		●			●							●	●	CentaurPlus C21
HONEYWELL	ST1000	●		●			●			●				●	●	425 Diadem/Tiara or ChannelPlus H21XL
	ST1501		●					●		●				●		ChannelPlus H21XL
	ST1507					●			●					●		ChannelPlus H27XL
	ST6100A		●	●			●		●			●				CentaurPlus C11 or ChannelPlus H11XL
	ST6100C		●			●			●			●				CentaurPlus C17 or ChannelPlus H17XL
	ST6200A		●	●			●			●			●		●	CentaurPlus C21
	ST6300A		●				●			●				●	●	CentaurPlus C21
	ST6400C		●			●			●					●		CentaurPlus C27
	ST6450B		●		●		●		●					●		CentaurPlus C27
	ST699B Fully Pumped		●	●			●			●				●	●	CentaurPlus C21 or ChannelPlus H21XL
	ST699B Gravity		●	●			●			●				●		CentaurPlus C21 or ChannelPlus H21XL
	ST7000A		●	●			●				●		●		●	CentaurPlus C21 or ChannelPlus H21XL
	ST7000B		●	●			●		●			●				CentaurPlus C11 or ChannelPlus H11XL
	ST7100		●		●		●			●				●		CentaurPlus C27 or ChannelPlus H27XL
	ST799A		●			●	●		●				●	●		CentaurPlus C27 or ChannelPlus H27XL
	ST9100A		●	●			●		●			●				CentaurPlus C11 or ChannelPlus H11XL
HORSTMANN	ST9100C		●				●		●			●				CentaurPlus C17 or ChannelPlus H17XL
	ST9400A		●	●			●		●					●		CentaurPlus C21 or ChannelPlus H21XL
	ST9400C		●			●		●		●				●		CentaurPlus C27 or ChannelPlus H27XL
	ST9500C		●			●		●		●				●		ChannelPlus H27ZXL
	423 Amethyst 10	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	423 Amethyst 7	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	423 Diamond	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	423 Emerald	●		●					●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	423 Pearl Auto	●		●					●							425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	424 Coral	●		●			●				●		●		●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	424 Diamond	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	424 Emerald	●		●					●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	424 Gem	●		●			●			●				●	●	425 Diadem/Tiara or CentaurPlus C21 or ChannelPlus H21XL
	424 Pearl Auto	●		●			●		●			●				425 Coronet or CentaurPlus C11 or ChannelPlus H11XL
	425 Coronet								●							425 Coronet or ChannelPlus H11XL
	425 Diadem	●		●			●			●				●	●	425 Diadem or ChannelPlus H21XL
	425 Tiara	●		●			●			●				●	●	425 Tiara or ChannelPlus H21XL
	517		●						●			●				ChannelPlus H17XL (75mm clearance required to left of existing programmer)
	525		●	●					●					●		ChannelPlus H21XL (75mm clearance required to left of existing programmer)
	527		●			●		●		●				●		ChannelPlus H27XL (75mm clearance required to left of existing programmer)
	Centaur SC1		●	●			●		●							CentaurPlus C11 or ChannelPlus H11XL
	Centaur SC7		●		●				●			●				CentaurPlus C17 or ChannelPlus H17XL
	Centaur TC1		●	●			●				●		●		●	CentaurPlus C21
	Centaur TC7		●		●		●				●		●		●	CentaurPlus C27
MYSON	Microtimer One		●	●				●		●				●		CentaurPlus C21 or ChannelPlus H21XL
	Microtimer Seven		●			●		●		●				●		CentaurPlus C27 or Channel

Heating Programmer Replacement and Wiring Guide



If you're replacing a central heating programmer you could just fit what was there before, or go one better and fit Horstmann. This handy guide shows you which of our programmers, from a straightforward electromechanical to a 2 channel 7 day programmer, is the perfect match. Often you can simply plug in without even having to rewire. Whichever one you select, you can be sure that it's well designed, beautifully engineered and bang up with the latest spec. You won't be replacing it in a hurry.

Using the Guide

First locate the existing programmer or timeswitch in the left hand column of the Programmer Compatibility Guide. Then simply follow the colour coded line over to the far right to find the recommended Horstmann replacement. The colour of the line indicates if it is a direct plug-in replacement or not. Where a 24 hour programmer or timeswitch is recommended, its 7 day equivalent can be used and fitted in the same way.

Wiring Comparison Table

Before removing any existing programmerr it is essential to make a note of wire colours, terminal positions and numbers in relation to the existing backplate. The charts only include programmers or timeswitches

where wiring changes are necessary when fitting our recommended replacement. Where a direct plug-in replacement is available or where terminal connections do not change, the appropriate replacement is shown on the Programmer Compatibility Guide.

	24 hour	7 Day
	CentaurPlus C11	CentaurPlus C17
	ChannelPlus H11XL	ChannelPlus H17XL
	CentaurPlus C21	CentaurPlus C27
	ChannelPlus H21XL	ChannelPlus H27XL

Installation and connection should only be carried out by a suitably qualified person and in accordance with the current edition of the IEE wiring regulations. The information contained in this manual is intended for guidance only and is believed to be correct. Horstmann Controls Ltd can accept no liability for any errors or omissions and reserve the right to make changes at any time without notice.

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Wiring comparison table - Programmers

Manufacturer Model		MAINS			HW OFF	CH OFF	HW ON	CH ON	SPARE
		E	N	L					
		Centaurplus C21 or C27							
		E	N	L	1	2	3	4	NONE
DANFOSS RANDALL	102	E	5	6			1	2	
	102E	E	5	6			1	2	
	102E5/102E7	E	5	6			1	2	
	3020P/3060	8	1,7	6			4	2	3,5
	4033	8	7	6	5	3	4	2	
	701	E	N	L	4	2	3	1	
	702	E	N	L	4	2	3	1	
	922	E	N	L	1	4	3	6	
	972	E	N	L	1	4	3	6	
DRAYTON/ ACL/INVENSY	LS112	E	N	L	2		3	4	
	FP	E	2	1	8	11	6	10	3
	MP	E	2	1			6	10	3,7,8
	Switchmaster 320	E	N,2	L			3	1	
	Switchmaster 350	E	N,2	L			3	1	
	Switchmaster 400	E	N	L		4	3	1	2
	Switchmaster 600	E	N	L			3	1	2,4
	Switchmaster 805	E	N	L	4	2	3	1	
	Switchmaster 900	E	N	L	4	2	3	1	A,B,C
	Switchmaster 9000	E	N	L	4	2	3	1	A,B,C
	Switchmaster 9001	E	N	L	4	2	3	1	A,B,C
	Switchmaster 905	E	N	L	4	2	3	1	
	Switchmaster Sonata		N	L	3	6	1	4	
HONEYWELL	SM2	E	N	L	1	2	3	4	
	ST699B - Fully Pumped	E	N	L	7	4	6	3	
	ST699B - Gravity	E	N	L			8	3	
	ST7000A		N	L	2		3	4	
	ST7100	E	N	L	7	4	8	5	
	ST799A		N	L	7	4	6	3	
	ST9400A	E	N	L	1	2	3	4	
	ST9400C	E	N	L	1	2	3	4	
	ST9500C	E	N	L	1	2	3	4	
HORSTMANN	423 Amethyst 10	E	2,3	1	4	6	5	7	
	423 Amethyst 7	E	2,3	1	4	6	5	7	
	423 Diamond	E	N	L			2	4	5,6
	424 Coral	E	2,3	1			8	4	5,6
	424 Diamond	E	N	L/1			2	4	5
	424 Gem	E	2,3	1	6	9	4	7	
MYSON	Microtimer One		N	L	7	4	6	3	
	Microtimer Seven		N	L	7	4	6	3	
	MEP2C		N	L	1	2	3	4	
POTTERTON	EP2000	E	N	L	1	2	3	4	A,B,C,D
	EP2001	E	N	L	1	2	3	4	A,B,C,D
	EP2002	E	N	L	1	2	3	4	A,B,C,D
	EP3000	E	N	L	1	2	3	4	A,B,C,D
	EP3001	E	N	L	1	2	3	4	A,B,C,D
	EP3002	E	N	L	1	2	3	4	A,B,C,D
	EP6000	E	N	L	1	2	3	4	A,B,C,D
	EP6002	E	N	L	1	2	3	4	A,B,C,D
SANGAMO	M5	E	4,5	3			1	6	
SUNVIC	MP2		N	L	HW OFF		HW ON	CH ON	
	SP100	E	N	L	1	4	2	5	S,5
	SP25	E	N	L	1		2	5	S,5,4
	SP30	E	N	L	1		2	5	S,5,4
	SP50	E	N	L	1	4	2	5	S,5
TIMEGUARD/ SMITHS	Centrollor 100	E	N	L			3	2	1,4
	Centrollor 60	E	1	2			5	4	3,6
	Centrollor 70	E	1	2			5	4	3,6
	Centrollor 90	E	1	2			5	4	3,6
	TRT036	E	N	L	NC2	NC1	NO2	NO1	
TOWERCHRON/ GRASSLIN	T2002	E	N	L			HW ON	CH ON	
	T2002Q	E	N	L			HW ON	CH ON	
	T2003	E	N	L	HW OFF	CH OFF	HW ON	CH ON	
	T2003Q	E	N	L	HW OFF	CH OFF	HW ON	CH ON	
VENNER	Venetrol 80	E	N,1,3,4	L			2		5
	Venetrol 80M	E	N,3	L	1	4	2	5	
	Venetrol 80P	E	N,1,3	L			2	A/S	A/S,4,5
	Venner T20	E	N	L			1	4	
	Venner T30	E	N	L	1	3	2	4	

	MAINS			HW ON	COM	HW OFF	CH ON	COM	CH OFF	SPARE
	E	N	L							
425 Diadem/Tiara or ChannelPlus H21/H27										
	E	N	L	1	2	3	4	5	6	NONE
E	5	6		1	3		2			
E	5	6		1	3		2			
E	5	6		1	3		2			
8	1,7	6		4			2			3,5
8	7	6		4		5	2	1	3	
E	N	L		3	6	4	1	5	2	
E	N	L		3	6	4	1	5	2	
E	N	L		3	2	1	6	5	4	
E	N	L		3	2	1	6	5	4	
E	N	L		3		2	4			
E	2	1		6		8	10		11	3
E	2	1		6			10			3,7,8
E	N,2	L		3	4		1			
E	N,2	L		3	4		1			
E	N	L		3			1		4	2
E	N	L		3			1			2,4
E	N	L		3		4	1		2	
E	N	L		3		4	1		2	A,B,C
E	N	L		3		4	1		2	A,B,C
E	N	L		3		4	1		2	A,B,C
E	N	L		3		4	1		2	
	N	L		1		3	4		6	
E	N	L		3		1	4		2	
E	N	L		6	8	7	3	5	4	
E	N	L		8	6		3	5		
	N	L		3		2	4			
E	N	L		8	6	7	5	3	4	
	N	L		6	8	7	3	5	4	
E	N	L		3		1	4		2	
E	N	L		3		1	4		2	
E	N	L		3		1	4		2	
E	2,3	1		5		4	7		6	
E	2,3	1		5		4	7		6	
E	N	L		2	1		4	3		5,6
E	2,3	1		8			4	7		5,6
E	N	L/1		2			4	3		5
E	2,3	1		4	5	6	7	8	9	
	N	L		6	8	7	3	5	4	
	N	L		6	8	7	3	5	4	
	N	L		3		1	4		2	
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	N	L		3		1	4	5	2	A,B,C,D
E	4,5	3		1			6			
	N	L		HW ON		HW OFF	CH ON			
E	N	L		2		1	5	3	4	S,S
E	N	L		2		1	5	3		S,S,4
E	N	L		2		1	5	3		S,S,4
E	N	L		2		1	5	3	4	S,S
E	N	L		3			2			1,4
E	1	2		5			4			3,6
E	1	2		5			4			3,6
E	1	2		5			4			3,6
E	N	L		NO2		NC2	NO1		NC1	
E	N	L		HW ON			CH ON			
E	N	L		HW ON			CH ON			
E	N	L		HW ON	COM	HW OFF	CH ON	COM	CH OFF	
E	N	L		HW ON	COM	HW OFF	CH ON	COM	CH OFF	
E	N,1,3,4	L		2			A/S			A,S,5
E	N,3	L		2		1	A/S		4	A/S,4,5
E	N,1,3	L		2			A/S			A/S,4,5
E	N	L		1			4			
E	N	L		2		1	4		3	

Programmers: The CentaurPlus and 425 Series models detailed within this programmer table do not have any SPARE or LINKING terminals. If spare terminals have been used on the programmer being replaced then any connected wires should be removed and re-connected into a separate piece of terminal block.

Wiring comparison table - Timeswitches

Manufacturer Model		MAINS			SPARE	COM	OFF	ON	
		E	N	L					
		Centaurplus C21 or C17							
E	N	L	1	2	3	4			
DANFOSS RANDALL	103	4	5	6	2	3	1		
	103E	4	5	6	2	3	1		
	103E5	4	5	6	2	3	1		
	103E7	4	5	6	2	3	1		
	911	E	N	L	2	5	4	6	
	917	E	N	L	2	5	4	6	
	971	E	N	L	2	5	4	6	
	TS15		N	L	3	1	2	4	
	TS75		N	L	3	1	2	4	
	TS715		N	L	3	1	2	4	
DRAYTON/ ACL/INVENSY	LP111		N	L	4	1	2	3	
	LP711		N	L	4	1	2	3	
	LS111		N	L	4	1	2	3	
	LS711		N	L	4	1	2	3	
	Switchmaster 300		N,2	L		4		1	
	Switchmaster 980		N	L		4		1	
	SM1		N	L	4	1	2	3	
	TC		2	1				7	
	Tempus 1		N	L	4	1	3	2	
	Tempus 2		N	L	4	1	3	2	
	Tempus 1-Mk2		N	L	4	1	2	3	
	Tempus 2-Mk2		N	L	4	1	2	3	
	HONEYWELL	ST6100A		N	L	3	1	2	4
		ST6100C		N	L	3	1	2	4
ST7000B			N	L			2	3	
ST9100A			N	L	3	1	2	4	
ST9100C			N	L	3	1	2	4	
HORSTMANN		423 Emerald	E	N	L	5,6	3		4
	423 Pearl Auto	E	N	L	5,6	3		4	
	424 Emerald	E	N	L,1	5	3		4	
	424 Pearl Auto	E	N	L,1	5	3		4	
	Centaur SC1	E	N	L	4	1	2	3	
	Centaur SC7	E	N	L	4	1	2	3	
MYSON POTTERTON	MEP1C		N	L	1	3	2	4	
	EP4000	E	N	L	A,B,C,D	5	2	4	
	EP4001	E	N	L	A,B,C,D	5	2	4	
	EP4002	E	N	L	A,B,C,D	5	2	4	
	EP5000	E	N	L	A,B,C,D	5	2	4	
	EP5002	E	N	L	A,B,C,D	5	2	4	
	SALUS CONTROLS	EP100		N	L			1	3
EP101			N	L	2	4	1	3	
SANGAMO SUNVIC	M6	E	4	6		3	2	1	
	Sunvic SP20	E	N	L	S	3	4	5	
TIMEGUARD/ SMITHS	SP35	E	N	L	S	3	4	5	
	Select 107/107XLS	E	N	L		1	2	3	
	Controllor 30	E	1	2			3,6	4,5	
	Controllor 40	E	1	2			3,6	4,5	
	Controllor 50	E	2	1,5				4	
	Controllor Mk1		N	L		3		2	
TOWERCHRON/ GRASSLIN	Controllor Mk2		N	L		3		2	
	TRT034	E	N	L			NC1	NO1	
	DT71		N	L		3	2	4	
	QE1		N	L	1	3	2	4	
	T2001		N	L				7	
VENNER	T2001Q		N	L				7	
	T10	E	N	L		2	1	3	
	Venotime	E	N	L	2		1	3	