

## VARIFAN ELECTRONIC TEMPERATURE/ SPEED CONTROLS

### ECS CONTROLS

- ▶ VARIABLE STAGE ▶ ALARM CONTACTS ▶ MOTOR CURVES
- ▶ HI-LO READINGS ▶ TEMP RAMPING ▶ 120/240 VOLT

PART #	MODEL #	DESCRIPTION	PROBE (LENGTH)
E53-8100	ECS-1M	1 STAGE DIGITAL - 1 VARIABLE STAGE (10 AMP.)	2004-1K/30 (30')
E53-8200	ECS-2M	2 STAGE DIGITAL - 1 VARIABLE STAGE (10 AMP.) 1 ON/OFF STAGE-10 AMP. (HEATING OR COOLING)	2004-1K/30 (30')
E53-8300	ECS-3M	3 STAGE DIGITAL - 2 VARIABLE STAGES (6 AMPS EA.) 1 ON/OFF STAGE (10 AMP.) (HEATING OR COOLING)	2004-1K/30 (30')
E53-8400	ECS-4M	4 STAGE DIGITAL - 2 VARIABLE STAGES (6 AMPS EA.) 1 ON/OFF STAGE (10 AMP.) (COOLING, SPRINKLER), 1 ON/OFF STAGE (10 AMP.) (HEATING OR COOLING)	2004-1K/30 (30')
E53-8500	ECS-5M	5 STAGE DIGITAL - 2 VARIABLE STAGES (6 AMP. EA.) 2 ON/OFF STAGES (10 AMP. EA.) (COOLING) 1 ON/OFF STAGE (10 AMP.) (HEATING OR COOLING)	2004-1K/30 (30')
E53-8650	DIP-1/R	DIGITAL INLET POSITIONER - FOR 24V ACTUATOR WITH POTENTIOMETER FEEDBACK, 24 VOLT POWER SUPPLY INCLUDED (MUST BE USED IN CONJUNCTION WITH ONE OR TWO ECS-'M' CONTROLS)	2004-1K (10")

### ECS-C CONTROLS

- ▶ IMPROVED ENCLOSURE ▶ LIGHTENING PROTECTION.
- ▶ UP TO 4 PROBES CAN BE CONNECTED (2 INCLUDED WITH EACH CONTROL)
- ▶ 8AMP VARIABLE STAGES ▶ 10AMP RELAYS
- ▶ **REQUIRES 240V SUPPLY & 240V VARIABLE STAGE FANS**
- ▶ **CORE 50 TECHNOLOGY**



PART #	MODEL #	DESCRIPTION	PROBE (LENGTH)
E53-8300C	ECS-3C	2 VARIABLE, 1 OFF/ON RELAY - HEAT & COOL OR MIST (2 PROBES INCLUDED)	2004-10K (10") 2004-10K/30 (30')
<b>E53-8301C</b>	<b>ECS-3C/120</b>	<b>120VOLT - SPECIAL FOR 120VOLT FANS</b>	SAME AS ECS-3C
E53-8500C	ECS-5C	2 VARIABLE, 3 OFF/ON RELAYS - 2 HEAT, 3 COOL 1 MIST (2 PROBES INCLUDED)	2004-10K (10") 2004-10K/30 (30')
E53-8650C	DIP-1C	INLET POSITIONER, 120/240V	2004-10K (10")
E53-3401C	SA-10C	1 STAGE VARIABLE - <b>NON DIGITAL</b>	2004-10K (10")
E53-4670	RH-3	RELATIVE HUMIDITY PROBE **REQUIRES 1 WIRE HARNESS	N/A
E53-4677	CRH-3/MGCB	**RED WIRE HARNESS ("C" CONTROLS)	
E53-4675	CRH-3/ECS	**BLUE WIRE HARNESS ("M" CONTROLS)	
E53-4676	CRH-3/IC	**YELLOW WIRE HARNESS (MSC/IC/LX CONTROLS)	
E53-9849	MM-4	UPLOAD/DOWNLOAD MEMORY STICK	

**PROVIDE A MINIMUM OF 1 T15-WD FOR SAFETY BACK-UP ON EACH CONTROL**

2 YEAR WARRANTY UNLESS NOTED OTHERWISE

## SPECIAL APPLICATION CONTROLS

PART #	MODEL #	DESCRIPTION	PROBE
E53-4825	CPS-1H1	PROPORTIONAL THERMOSTAT FOR MODULATING HOT WATER VALVES. C/W SPECIAL PROBE (10° - 70°C OR 50° - 160°F) SAME FEATURES AS CPS-1 (E53-4800)	2004-1KHT (6")
E53-8700	TFD-1/R	1 STAGE VARIABLE 0-10 VOLT FOR 1-10 VOLT DEVICES	2004-1K (10")
E53-8905	THO-2	THO-2 C/W TEMPERATURE PROBE (CONTROLS COMBINATION OF TEMPERATURE AND HUMIDITY)	2004-1K (10")
E53-4670	RH3	<b>ALSO REQUIRED:</b> HUMIDITY PROBE	
E53-4675	CRH-3/ECS	BLUE CABLE	
E53-4280	PEC-1/KIT	PEC-1 C/W SPS-1 HATCHERY VENTILATION CONTROL MAINTAINS STATIC PRESSURE BY CHANGING FAN SPEED IN EITHER EXHAUST OR INTAKE MODE.	N/A
E53-5130	IC-410-ND Config# 41E01V5	<b>"WATER TROUGH SOW DELIVERY SYSTEM"</b> DELIVERS DESIRED LITRES PER SOW (MAX 150 SOWS PER TROUGH) UP TO 8 TIMES PER DAY. 8 TROUGHS. EXPANDABLE TO 12 (CALL) REQUIRES 1 WATER METER C/W PULSE (SEE PAGE 4.2a)	

## HEAT MAT/LAMP CONTROLS

E53-4300	EMC-2	HEAT MAT/LAMP CONTROL (1 PROBE INCLUDED) 2 ZONE, 2 OUTPUTS OF 1000WATTS EACH @ 120V	2004-1K/30
E53-4330	TLC-4200	HEAT MAT/LAMP CONTROL (2 PROBES INCLUDED) 2 ZONE, 2 OUTPUTS OF <b>16 AMPS EACH</b>	2004-1K
E53-4305	GE-INFRA4	CONTROLS UP TO 4 CRATE'S HEAT LAMPS USING A INFRARED SENSOR CAN ALSO TURN ON AN ADDITIONAL DRYING HEAT LAMP MANUALLY OR WITH OPTIONAL MOTION DETECTOR AAND AUTOMATICALLY SHUT OFF ACCORDING TO A TIMER. INCLUDES 4 INFRARED SENSORS (IRS-1)	
E53-4307	IRS-1	INFRARED SENSOR	

## POULTRY BIRD SCALES

E53-9500	OPTI-GAIN 4	BIRD WEIGH SCALE MASTER CONTROL 45 DAYS (REQUIRES A MIN. OF ONE PLATFORM SCALE OR UP TO A MAX OF FOUR PLATFORM SCALES (OPTI-GAIN 1).	<b>CORE 1000</b>
E53-9505	OPTI-GAIN 5	BIRD WEIGH SCALE MASTER CONTROL 250DAYS	<b>CORE 2000</b>
E53-9510	OPTI-GAIN KIT	PLATFORM SCALE C/W HANGING HDWR.	
E53-9520	X1152 MD-COM	COMMUNICATION CARD (REQ. IF CONNECTING TO PC)	
E53-9507	OPTI-GAIN 7	TURKEY WEIGH SCALE MASTER CONTROL 250 DAYS	<b>CORE 2000</b>
E53-9502	OPTI-GAINKIT/D	TURKEY PLATFORM SCALE PLATFORM	

## METERS

E53-1010	EM10	TEMPERATURE & HUMIDITY METER
E53-1020	EM20	TEMPERATURE & AIRFLOW METER (ft. per min)



## MANUAL VARIABLE SPEED CONTROLS

PART #	MODEL #	DESCRIPTION	
E53-4450C	MVS-1C	MANUAL VARIABLE SPEED CONTROL - 12AMP (INTERNAL TRIM POT)	
E53-4460	MVS-2	MANUAL VARIABLE SPEED CONTROL - 6AMP	
E53-4468	VSD-1MC	VARIABLE SPEED DRIVE - CAN BE CONTROLLED BY A	<b>10AMP</b>
E53-4470	VSD-1MC-20	4-20MA SIGNAL OR 0-10 VOLT c/w <b>MANUAL OVER-RIDES</b>	<b>20AMP</b>
E53-4472	VSD-1MC-40		<b>40AMP</b>
E53-4466	VSD-1C	4-20 OR 0-10V INPUT 10AMPS <b>NO OVER-RIDES</b>	<b>10 AMP</b>

## OFF/ON ELECTRONIC DIGITAL TEMPERATURE CONTROLS (ALL RELAYS 10 AMPS)

PART #	MODEL #	DESCRIPTION	PROBE
E53-3600	MST-1/R	ONE STAGE OFF/ON HEATING AND COOLING (1 PROBE INCLUDED)	2004-1KLT
E53-3650	MST-1H1	ONE STAGE OFF/ON HOT WATER HEATING C/W SPECIAL 2004-1KHT PROBE TO READ 10-70°C	2004-1KHT
E53-3640	MST-2B	ONE OFF/ON MISTING, EVAPORATIVE COOLING (1 PROBE INCLUDED) C/W 2 STAGE PROGRESSIVE TIMER. <b>OPTIONAL - RH-3 HUMIDITY PROBE C/W BLUE CABLE MAY BE USED TO DELAY MISTING IF HUMIDITY GETS TOO HIGH</b>	2004-KLT
E53-8850C	MST-5C	FIVE OFF/ON RELAYS - RELAYS 1,2,3 COOL STAGES, RELAYS 4 AND 5 HEAT OR COOL. CAN ALSO BE USED TO RUN UP TO 2 SPD FANS USING RELAYS 1,2 AND RELAYS 3,4 AS LOW SPEED/HIGH SPEED. (1 PROBE INCLUDED - UP TO 4 PROBES POSSIBLE)	2004-10K
EJDDT2	JDDT2	DUAL STAGE DIGITAL THERMOSTAT HEAT OR COOL	

## CURTAIN/INLET CONTROLS

PART #	MODEL #	DESCRIPTION	PROBE
E53-4830	CPS-1/L	AIR INLET/CURTAIN CONTROL 1 ZONE (1 PROBE INCLUDED) OPERATES ON TEMP. TIME BASED, DOWN TO -9.9°C. CAN BE USED AS STATIC PRESSURE CONTROL BY ADDING SPS-1 SENSOR	2004-1KLT
E53-4850C	CPS-2C	2 ZONE CURTAIN CONTROL, OPERATES ON TEMP., TIME BASED WITH DELAYS ON BOTH OPEN/CLOSE. (2 PROBES INCLUDED)	2004-10K
E53-8800	CPS-3M/R	2 ZONE CURTAIN CONTROL - C/W HEAT OFF/ON RELAY, TIME BASED WITH DELAY ON BOTH OPEN/CLOSE (2 PROBES INCLUDED)	2004-1K
E53-4270	SPS-1/R	1 STATIC PRESSURE SENSOR (REQUIRES CPS-1/L)	N/A

**NOTE: ALSO SEE GENIUS 210, 215, 220 CONTROLS FOR MULTIPLE CURTAIN APPLICATIONS.**



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## VARIFAN COMPONENTS

PART #	MODEL #		DESCRIPTION	Size
E53-4026	.125 MA		FUSE	Power fuse for LX-64X, IC-10, IC-410
E53-4024	.75 AMP		FUSE	Power fuse for VDC24
E53-4030	1 AMP		FUSE	Power fuse for DIP-1
E53-4028	1.5 AMP		FUSE	Power fuse for SVIM-/24
E53-4025	3 AMP		FUSE	Actuator Power Fuse for SVIM-1, DIP, CIP
E53-4020	5 AMP		FUSE	SVIM-1 120V, SLIM BOARD
E53-4032	.250MA		FUSE	.250MA Fuse (GENIUS)
E53-4033	8 AMP		FUSE	GE-4XX var-2 board
E53-4021	10 AMP		FUSE	ECS-1-5M & C Series, MC-22,MST-1H1 MST-2B, EMC-2, CM3-2
E53-4023	15 AMP		FUSE	VPM-1, VPM-2, VSM-2, GE-V2, GE-V1 GE-V4,GE-32,GE-28,MST-1, MVS-1, MVS-2 GE-25, PEC-1
E53-4027	20 AMP		FUSE	TLC-4200, MC-4200SL, CM10-2
E53-4029	FB-1		FUSE BOX	
E50-0621			PLASTIC WATERPROOF CONNECTOR	
E53-3460	2004-100K	<b>ORANGE</b>	NON DIGITAL TEMP. PROBE ( <b>SA-10</b> )	10"
E53-4920	2004-1K	<b>RED</b>	DIGITAL TEMP. PROBE ( <b>ECS, IC, MST-5, LX</b> ) TEMP RANGE:-21 DEG. TO 76 DEG. C, -6 DEG. TO 168 DEG. F	10"
E53-4921	2004-1KLT	<b>BLUE</b>	DIGITAL LOW TEMP. PROBE ( <b>MST-1, MST-2B</b> ) TEMP RANGE: -10 DEG. TO 41 DEG. C, 13.5 DEG. TO 105.5 DEG. F	10"
E53-4922	2004-1KHT	<b>RED</b>	DIGITAL HOT WATER PROBE ( <b>MST-1H1</b> ) TEMP RANGE: 10 DEG. TO 70 DEG. C, 50 DEG. TO 160 DEG. F	6FT
E53-4924	2004-1K/30'	<b>RED</b>	30' DIGITAL TEMPERATURE PROBE ( <b>ECS, IC, MST-5, LX</b> ) TEMP RANGE: -21 DEG. TO 76 DEG. C, -6 DEG. TO 168 DEG. F	30FT
E53-4930	2004/10K	<b>BLACK</b>	PROBE FOR <b>WAVE/GENIUS</b>	10"
E53-4934	2004-10K/30	<b>BLACK</b>	PROBE FOR <b>WAVE/GENIUS</b>	30FT
E53-4925	2004-5K/SV1	<b>RED</b>	SV1 SVIM PROBE	10"
E53-4927	2004-5K/SV30		SV1/30 SVIM PROBE	30FT
E53-4915			2 CONDUCTOR, 18 GAUGE SHIELDED WIRE (PER FOOT) (FOR EXTENDING TEMPERATURE PROBES)	
E53-4929	2004-1K/F		FAST READING PROBE (4 TIMES FASTER)	10"
E53-4928	2004-1KX2	<b>RED</b>	DOUBLE LECTURE PROBE	10"

NOTE: 2 YEAR WARRANTY UNLESS NOTED OTHERWISE

## MULTIFAN AND MISCELLANEOUS CONTROLS

(1 YEAR WARRANTY)

PART #	MODEL #		DESCRIPTION
E53-5402	T15-WD		SINGLE SPEED THERMOSTAT 10 AMP. 110/220 VOLT
EJDDT2	JDDT2		TWO STAGE DIGITAL THERMOSTAT 10AMP 90-255 VOLT 50/30HZ
E53-5403DV	T10-3		THREE PHASE THERMOSTAT
E53-1025	25		DWYER #25 MARKII MANOMETER 0"-3" S.P.
E53-1026	A-101		RED GAUGE OIL - 3/4 oz BOTTLE
E53-1030	2000-00D		MAGNEHELIC PRESSURE GAUGE (0"-0.25" WC / 0-125 PA)
E53-7676	05-09-060		1/4" CLEAR TUBE (10 FEET)
<b>E53-5410</b>	<b>PECO</b>		<b>NEMA 4X 1SPEED THERMOSTAT</b>



## VARIFAN CONTROLS

### RECOMMENDED FOR REPLACEMENT ONLY OF EXISTING CONTROLS

PART #	MODEL #	DESCRIPTION	PROBE
E53-4500	MST-3/R	THREE STAGE OFF/ON	
E53-9320	MC-22/R	TWO VARIABLE 6AMP STAGES, 2 OFF/ON 10AMP HEAT/COOL STAGES	3@12"
E53-9000	LX-641-C	ONE INTERNAL RELAY (HEAT, COOL OR SPRINKLER)	3@30'
E53-9005	LX 641-F	EXPANDABLE BY UP TO 4 VARIABLE STAGES ( BY ADDING VPM-1, VPM-2 OR VSM-2 MODULES) AND 1 INLET (BY ADDING SVIM-1/24 OR SVIM-1 MODULE)	
E53-9010	LX 642-C	TWO INTERNAL RELAYS (HEAT, COOL, SPRINKLER)	3@30'
E53-9015	LX 642-F	EXPANDABLE UP TO 4 VARIABLE STAGES	
E53-9020	LX 644-C	FOUR INTERNAL RELAYS (HEAT, COOL, 1 SPRINKLER)	3@30'
E53-9025	LX 644-F	EXPANDABLE UP TO 4 VARIABLE STAGES	
E53-9030	LX-644/2-C		
E53-9035	LX-644/2-F		
E53-9110	LX-646/2-C	SIX INTERNAL RELAYS (HEAT, COOL, 1 SPRINKLER)	5@10"
E53-9115	LX-646/2-F	EXPANDABLE UP TO 4 VARIABLE STAGES	
E53-9100	LX-646/4-C		5@10"
E53-9105	LX-646/4-F		
E53-9040	VPM-1	ONE VARIABLE STAGE MODULE 6 AMP.	N/A
E53-9045	VPM-2	TWO VARIABLE STAGE MODULE 6 AMP. EACH.	N/A
E53-5260	SVIM-1	DIGITAL INLET MODULE - 110V, FOR USE WITH 110VOLT ACTUATOR	1@30'
E53-5270	SVIM-1/24	DIGITAL INLET MODULE -24V (SUPPLIES 24V OUTPUT TO ACTUATOR)	1@30'
E53-4960	VSM-2	TWO VARIABLE FAN STAGES, 6 AMP C/W TOGGLE OVER-RIDE	
E53-5110	IC-610	INTELLIGENT CONTROL <b>(SPECIFY CONFIGURATION #)</b>	N/A
E53-4940	CM10-2	TWO ON/OFF STAGES, 10 AMP. EACH. MAX. 1 1/2 H.P.	N/A
E53-4955	CIP-1	CURTAIN/ INLET POSITIONER, 3 AMP. MODULE	N/A
E53-4963	VSM-2/2	ONE VARIABLE FAN STAGE AT 12 AMP. C/W MAN. OVERRIDE	N/A
E53-4967	SPS-24	24VOLT VAC TRANSFORMER ONLY	N/A
E53-4965	VDC-24	24 VOLT TRANSFORMER WITH ENCLOSURE (DC VOLTAGE)	N/A
E53-4970	CM3-2	TWO ON/OFF STAGES, 4 AMP. EACH	N/A
E53-4875	R.B.-2	RELAY BOX (25 AMP., 2 H.P.)	N/A
E53-5111	CM-8	CM-8 CONFIGURATION CHIP FOR IC/LX CONTROLS	

## FARMQUEST COMMUNICATION SYSTEM (DIRECT WIRED OR WIRELESS)

VIEW AND MANAGE YOUR CONTROLS USING INTERNET(FREE ACCESS) TO ONLINE SERVER

PART #	MODEL#	DESCRIPTION
E53-9154C	WEBGATE C	COMPACT WIRELESS WEBGATE FOR WIRELESS CONNECTION TO FARMQUEST THRU INTERNET SERVICE
E53-9154	WEBGATE 3G/HW	WEBGATE 3G/HW INCLUDES ETHERNET PORT AND NETIN-2 CARD <b>FOR HARD WIRE CONNECTION</b> TO CONTROLS. CONTROLS REQUIRE COMMUNICATION CARDS
E53-9162	DOORLOCK/IDC	ELECTRICAL DOOR ACCESS 5 RFID
E53-9054	RF-P4	MULTI PURPOSE 4 INPUT MODULE (WIRELESS)

## WI FARM 3G ANTENNAS & ANTENNA CONTROL CARDS FOR WIRELESS SYSTEM

PART #	MODEL#	DESCRIPTION
E53-9155	RF-IN1	ANTENNA CARDS FOR CORE 100 CONTROLS (ECS-C, GE-25, 28, L2)
E53-9156	RF-IN2	ANTENNA CARDS FOR CORE 1000/2000 CONTROLS (GENIUS, OPTIGAIN)
E53-9157	RF-XTEND	ANTENNA FOR EXTERIOR MOUNT - USED TO EXTEND RANGE OF RF ACCESS ANTENNA'S OR AROUND OBSTRUCTIONS.
E53-9158	RF-ACCESS	WIRELESS SYSTEM ANTENNA - USED TO SEND SIGNAL THRU WALLS AND BETWEEN BUILDINGS UP TO 1600FT BETWEEN EACH ANTENNA <i>(DISTANCE BASED ON DIRECT VIEW LINE OF SIGHT.)</i>

## COMMUNICATION CARDS FOR DIRECT WIRE SYSTEM

PART #	MODEL#	DESCRIPTION
E53-9797	X1264/COM	COM CARD FOR GENIUS GE25, GE28, GE-6X
E53-9830	X1202/1640ER	COM CARD FOR: CORE 1000, 2000, GENIUS 4X, 4XLS AND AGRI-MANAGER CONTROLS
E53-9160	NETIN-2	COM CARD FOR: CORE 50, 100, GE-L2, ECS-C
E53-9520	X1152 MDCOM	COM CARD FOR OPTIGAINS

## FARM SITE COMMUNICATION SYSTEM- USING SOFTWARE ON PERSONAL PC

3G "WI FARM" WIRELESS COMMUNICATION SYSTEM

PART #	MODEL#	DESCRIPTION
E53-9152	RAN-1	RADIO ACCESS NETWORK ANTENNA USB KEY FOR PC

**FARM-SITE SOFTWARE FOR YOUR PC IS FREE**

\*\*NOTE: CONTROLS MUST HAVE RF-IN OR RF-IN2 WIRELESS CARDS TO COMPLETE SYSTEM