



# PRESSURE, VACUUM AND TEMPERATURE









# **FEATURES**

- Compact Size
- Wide Selection of Adjustable Ranges:

  Pressure: 30" Hg Vac to 6000 psi (-1 to 413,7 bar)

  Temperature: -130 to 650°F (-90 to 343.3°C)
- Choice of One or Two Switch Outputs
- Adjustable or Narrow Deadband Options
- Reference Dial or Hex Screw Set Point Adjustment







# **OVERVIEW**

The 54 Series offers the OEM a combination of reliable performance and low cost. Available in pressure and temperature versions, with single or dual SPDT outputs and enclosed or open frame (skeleton) construction, the 54 Series family provides design versatility.

The 54 has been field-proven in a wide variety of OEM applications, including medical, laboratory, fire protection and heating equipment.



# **FEATURES**

- Compact size
- Choice of one or two switch outputs
- Reference dial or hex screw-type setting
- Optional 1/2" NPT (male) by 1/8" NPT (female) polysulfone® pressure connection
- Optional external manual reset
- NEMA 1 or open frame (skeleton) versions for OEM applications
- Brass bellows models

Polysulfone® is a registered trademark of Amoco







#### **SPECIFICATIONS**

**STORAGE TEMPERATURE** -65 to 160°F (-54 to 71°C)

**AMBIENT TEMPERATURE** 

LIMITS

**Pressure Models** Models 126-164, 610-614: -40 to 160°F (-40 to 71°C);

Models 22-28; 16008, 16009: 0 to 160°F (-18 to 71°C)

-40 to 160°F (-40 to 71°C). Set point typically shifts less than 1% of range for a 50°F **Temperature Models** 

(28°C) ambient temperature change.

**SHOCK** Set point repeats after 15 G, 10 millisecond duration

**VIBRATION** Set point repeats after 2.5 G, 5-500 CPS

**ENCLOSURE CLASSIFICATION** Types C54, C54A, B54, F54, E54, J54A, H54: complies with NEMA 1 requirements.

Types C54S, B54S, F54S, E54S, J54S, J54AS, H54S: not applicable

**SET POINT REPEATABILITY** 

**ENCLOSURE MATERIAL** 

**Pressure Models** Models 22-28, 16008-16009, 126-164: ± 1% of full scale range;

Models 610-614: ± 1.5% of full scale range

**Temperature Models** ± 1% of full scale range

**SWITCH OUTPUT** One or two SPDT snap action switch(es); dual switch may be separated up to 100% of

range; switches may be wired "normally open" or "normally closed"

15A 125/250/480 VAC resistive except models 16008-16009 – 20A 480/VAC. Electrical **ELECTRICAL RATING** 

> switches have limited DC capabilities. Consult UE for additional information. Lexan® black finish for Types J54, J54A, H54, B54, C54, C54A, E54, F54 only

**WEIGHT** Approximately 12 oz.

**ELECTRICAL CONNECTION** Types J54 & H54, C54, C54A, B54, E54, F54: 7/8" diameter hole; Type J54A: 1-1/16"

diameter hole

PRESSURE CONNECTION Models 22-28, 16008, 16009: 1/4" NPT (male); 126-164, 610-614: 1/4" NPT (female)

Bulb and Capillary: 6 feet copper or 304 stainless steel capillary **TEMPERATURE ASSEMBLY** 

Immersion Stem: Brass

**TEMPERATURE FILL** 

**TEMPERATURE DEADBAND** Typically 1% of range under laboratory conditions (70°F circulating bath at rate of 1/2°F

per minute change)

#### **APPROVALS**

# **UNITED STATES AND CANADA**



Type J54, J54A, H54 **UL Listed, cUL Certified** 

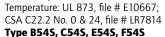
Pressure: UL 508, CSA C22.2 No. 14, file # E42272

Type J54S, J54AS, H54S **UL Recognized, cUL Recognized** 

Pressure: UL 508, CSA C22.2 No. 14, file #E42272



Type B54, C54, E54, F54 **UL listed, CSA Certified** 



**UL Recognized, CSA Certified** Temperature: UL 873, file # E10667; CSA C22.2 No. 0 & 24, file # LR7814





Low Voltage Directive (LVD) (73/23/ED & 93/68/EEC)

UEC compliant to LVD

Products rated lower than 50 VAC and 75 VDC are outside of the scope of the LVD

Pressure Equipment Directive (PED) (97/23/EC)

Compliant to PFD

Products rated lower than 7.5 psi are outside the scope of the

Lexan® is a registered trademark of General Electric Company











# PRESSURE MODEL CHART

Model	Adjustable Set Range Low end of range High end of range	on fall;	Deadband		Over Range P	ressure*	Proof Pressure	**
	psi (unless noted)	bar (unless noted)	psi (unless noted)	bar (unless noted)	psi	bar	psi	bar
J54, J54	A, J54S, J54AS, H	154, H54S						
Buna N d	iaphragm and O-Rir	ng with 1/4" NPT (	male) aluminum pre	essure connection; limited	d to process te	mperature belo	ow 200°F	
22 24 25 27 28	30" Hg Vac to 0 3 to 30 10 to 100 30 to 300 50 to 500	-1 to 0 0,2 to 2,1 0,7 to 6,9 2,1 to 20,7 3,4 to 34,5	1 to 3.5" Hg Vac 0.4 to 1.3 1 to 2.5 1.3 to 4 1.5 to 5	33,9 to 118, 5 mbar 27,6 to 89,6 mbar 68,9 to 172,4 mbar 89,6 to 275,8 mbar 103,4 to 344,7 mbar	0 50 100 above set point	0 3,4 6,9 above set point	50 200 above set point Max 600	3,4 13,8 above set point Max 41,4
Brass bell	ows with nickel-plat	ed brass 1/4" NPT	(female) pressure co	onnection; Model 126 ha	as a zinc-plated	d steel spring e	xposed to me	dia
			0.1 to 0.5 0.1 to 0.6 0.1 to 0.7 0.2 to 0.8 0.3 to 2	6,8 to 30,5 mbar 2,5 to 19,9 mbar 6,9 to 34,5 mbar 6,9 to 41,4 mbar 6,9 to 48,3 mbar 13,8 to 55,2 mbar 20,7 to 137,9 mbar	3 3 20 30 50 100 200	0,2 0,2 1,4 2,1 3,4 6,9 13,8 ded for gas ser	5 5 25 40 75 125 200	0,3 0,3 1,7 2,8 5,2 8,6 13,8
610 612 614	75 to 1000 125 to 3000 700 to 6000	5,2 to 68,9 8,6 to 206,8 48,3 to 413,7	30 to 150 40 to 250 50 to 400	2,1 to 10,3 2,8 to 17,2 3,4 to 27,6	6000 6000	413,7 413,7 413,7	10,000 10,000 10,000	689,5 689,5 689,5
	Adjustable Set		Adjustable Dea			nge Pressure		essure**
16008**	30 to 300 <b>†</b> 30 to 300	ng with 1/4" NPT ( 2,1 to 20,7 2,1 to 20,7	male) brass pressure 10 to 30 10 to 30	0,7 to 2,1 0,7 to 2,1	ljustable deadl  100 above set point	6,9 above set point	200 above set point, max 600	13,8 above set point max 41,4

<sup>\*</sup>Over Range Pressure: The Maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability.



Registered in England No: 01851002 VAT No: GB 417 2481 61







<sup>\*\*</sup>Proof Pressure: The maximum pressure to which a pressure sensor may be occasionally subjected, which causes no permanent damage. The unit may require calibration (e.g., start-up, testing).

<sup>†</sup> Model not available for types H54, H54S †† Model not available for type J54.

<sup>\*\*\*</sup> Model not available for type J54S.

# TEMPERATURE MODEL CHART

Model	Adjustable Set Range	Adjustable Set Point Range		Max. Temperature		* * * on	Stem Size
	°F	°C	°F	°C	°F	°C	NPT x BT (inches)
B54, B54S, C5	4, C54S, C54A, C54AS,	Brass immersion stem					
103	0 to 225	-17.8 to 107.2	250	121.1	10	5	3/8 x 2-1/8
109	200 to 425	93.3 to 218.3	425	218.3	10	5	3/8 x 2-1/8
							OD x Length
<b>E54, F54,</b> Copp	er bulb and capillary						
D20BC	-130 to 120	-90 to 48.9	170	76.7	10	5	3/8 x 4-1/2
D21BC	0 to 150	-17.8 to 65.6	200	93.3	5	5	3/8 x 6-7/8
D22BC	50 to 300	10 to 148.9	350	176.7	10	5	3/8 x 4-1/2
D23BC	150 to 650	65.6 to 343.3	700	371.1	25	10	3/8 x 3-5/8
<b>E54, F54,</b> Stain	less steel bulb and capilla	ry					
D20BS‡	-130 to 120	-90 to 48.9	170	76.7	10	5	3/8 x 4-1/2
D21BS	0 to 150	-17.8 to 65.6	200	93.3	5	5	3/8 x 6-7/8
D22BS	50 to 300	10 to 148.9	350	176.7	10	5	3/8 x 4-1/2
D23BS	150 to 650	65.6 to 343.3	700	371.1	25	10	3/8 x 3-5/8
<b>E54S, F54S,</b> Co	opper bulb and capillary						
D21BC	0 to 150	-17.8 to 65.6	200	93.3	5	5	3/8 x 6-7/8
D22BC	50 to 300	10 to 148.9	350	176.7	10	5	3/8 x 4-1/2
D23BC	150 to 650	65.6 to 343.3	700	371.1	25	10	3/8 x 3-5/8
<b>E54S, F54S,</b> St	ainless steel bulb and capi	llary					
D21BS	0 to 150	-17.8 to 65.6	200	93.3	5	5	3/8 x 6-7/8
D22BS	50 to 300	10 to 148.9	350	176.7	10	5	3/8 x 4-1/2
D23BS	150 to 650	65.6 to 343.3	700	371.1	25	10	3/8 x 3-5/8





<sup>‡</sup> Not available Type F54 \*\*\* Applies to Types B54, B54S, E54, E54S only





# HOW TO ORDER

#### **BUILDING A PART NUMBER**

Select a	Туре	
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Refer to the "Type" section below.

Determine type number based on switch output, enclosure, adjustment and reference.

Fill in the type portion of your part number with the corresponding number.

Select a Model

Refer to the "Model Charts."

Determine model based on adjustable range, deadband and proof pressure.

Fill in the model portion of your part number with the corresponding number.

Select an **Option** 

Refer to the "Options" section.

Determine option number based on switch output, optional materials or other product enhancements.

Fill in the option portion of your part number with the corresponding number.

Leave "option" portion blank if no options are needed. FOR MULTIPLE OPTIONS: Call United Electric Controls.

TYPE	DESCRIPTION - PRESSURE MODELS
J54:	NEMA 1 enclosure; One SPDT output; internal hex adjustment with no reference dial
J54A:	NEMA 1 enclosure; Two SPDT outputs; internal hex adjustment with no reference dial
J54S:	Skeleton construction; One SPDT output; hex adjustment with no reference dial
J54AS:	Skeleton construction; Two SPDT outputs; hex adjustment with no reference dial
H54:	NEMA 1 enclosure; One SPDT output; internal adjustment with reference dial
H54S:	Skeleton construction; One SPDT output; adjustment with reference dial
	TEMPERATURE MODELS
C54:	NEMA 1 enclosure; Immersion stem; one SPDT output; internal hex adjustment with no reference dial
C54A:	NEMA 1 enclosure; Immersion stem; two SPDT outputs; internal hex adjustment with no reference dial
C54S:	Skeleton construction; Immersion stem; one SPDT output; hex adjustment with no reference dial
C54AS:	Skeleton construction; Immersion stem; Two SPDT outputs; hex adjustment with no reference dial
B54:	NEMA 1 enclosure; Immersion stem; one SPDT output; internal adjustment with reference dial
B54S:	Skeleton construction; Immersion stem; one SPDT output; adjustment with reference dial
F54:	NEMA 1 enclosure; Bulb and capillary; one SPDT output; internal hex adjustment with no reference dial
F54S:	Skeleton construction; Bulb and capillary; one SPDT output; hex adjustment with no reference dial
E54:	NEMA 1 enclosure; Bulb and capillary; one SPDT output; internal adjustment with reference dial
E54S:	Skeleton construction; Bulb and capillary; one SPDT output; adjustment with reference dial
SWITCH OPTION	S*

CODE	DESCRIPTION
0500	Close deadband, 5A 125/250 VAC resistive NOT AVAILABLE ON B54, B54S, C54, C54S, C54A, C54AS, E54S, F54, F54S, AND MODELS 16008-16009.
1520	Adjustable deadband, 15A 125/250/277 VAC resistive. Adjustable wheel changes rise setting only. If adjustment of fall setting is required, use primary adjustment. NOT AVAILABLE ON TYPES J54A, J54AS, H54, H54S, PRESSURE MODELS 610-614, 16008-16009 & TEMPERATURE VERSIONS
1530	External manual reset, 15A 125/250/480 VAC resistive; reset on increasing pressure or temperature only. NOT AVAILABLE ON TYPES J54A, J54S, J54AS, H54S,B54S, C54A, C54AS, C54S, E54S, F54S OR MODELS 610-614, 16008-16009
2000	20A 125/250 VAC resistive. NOT AVAILABLE MODELS 16008-16009.

<sup>\*</sup> All switches have limited DC capabilities. Consult factory for details.









### **GENERAL OPTIONS**

CODE	DESCRIPTION
M201	Factory set one switch; specify increasing or decreasing pressure or temperature and set point. NOT AVAILABLE ON TYPES J54A, J54AS, C54AS, C54AS AND MODELS 16008-16009.
M202	Factory set two switches; specify increasing or decreasing pressure or temperature and set point. NOT AVAILABLE ON TYPES J54, J54S, H54, H54S, B54S, B54S, C54S, C54S, E54S, E54S, F54S
M270	Calibrated dial in Celsius. NOT AVAILABLE ON PRESSURE VERSIONS AND TYPES B54, B54S, C54, C54S, C54A, C54AS, F54, F54S
M277	Range indicated on nameplate in kPa or MPa. NOT AVAILABLE ON TEMPERATURE VERSIONS AND MODELS 16008-16009.
M278	Range indicated on nameplate in kg/cm2. NOT AVAILABLE ON TEMPERATURE VERSIONS AND MODELS 16008-16009.
M444	Paper ID tag. NOT AVAILABLE MODELS 16008-16009.
M446	Stainless steel ID tag & wire attachment. NOT AVAILABLE MODELS 16008-16009.
M540	Viton® construction (deadband and low end range may increase slightly. Consult factory); Wetted parts include Viton® diaphragm and O-Ring plus standard connection material. NOT AVAILABLE MODELS 126-164, 16008-16009 OR TEMPERATURE VERSIONS

# PRESSURE CONNECTION OPTIONS

M501 Polysulfone® pressure connection 1/2" NPT (male) x 1/8" NPT (female). NOT AVAILABLE MODELS 126-164, 610-

614, 16008-16009 OR TEMPERATURE VERSIONS

# OPTIONS FOR TEMPERATURE MODELS

# **UNION CONNECTORS**

For all bulb & capillary switches

Option	Replacement Number	Description
	<u>Brass</u>	
W027	SD6213-27	1/2 " NPT w/ 3/4" bushing
W045	SD6213-45	3/4" NPT
W051	SD6213-51	1/2" NPT
	304 Stainless Steel	
W028	SD6213-28	1/2" NPT w/ 3/4" bushing
W046	SD6213-46	3/4" NPT
W050	SD6213-50	1/2" NPT

#### **THERMOWELLS**

For all bulb & capillary switches

TOT UIT DUID C	cupiliary switches	
<u>Bra</u>	SS	
W075	SD6225-75	3/4" bushing adapter, 4" BT
W191	SD6225-191	1/2" NPT, 4" BT
W118	SD6225-118	3/4" bushing adapter, 7" BT
W192	SD6225-192	1/2" NPT, 7" BT
316	Stainless Steel	
W076	SD6225-76	3/4" NPT, 4.5" BT
W193	SD6225-193	1/2" NPT, 4.5" BT
W119	SD6225-119	3/4" NPT, 7.5" BT
W177	SD6225-177	1/2" NPT, 7.5" BT
For all Immers	ion stem switches	
W141	SD6225-141	1/2" NPT x 1 9/16" BT, brass
W146	SD6225-146	1/2" NPT x 1 9/16" BT, 316 stainless steel

# **OPTIONAL LENGTHS:**

Optional immersion stem lengths to 15" available in brass, with or without 316 st/st thermowell. Consult UE for additional information. Optional capillary length to \*50' available in copper or 304 st/st. Armor or Teflon® capillary protection available to lengths less than or equal to capillary length. Consult UE for additional information.

\*Consult UE regarding repeatability and ambient effects on capillary lengths over 30'.

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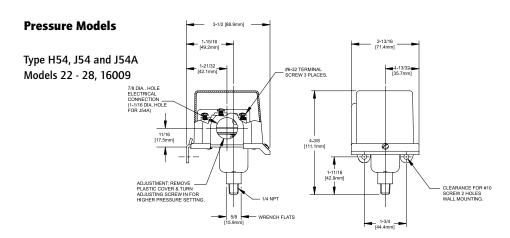




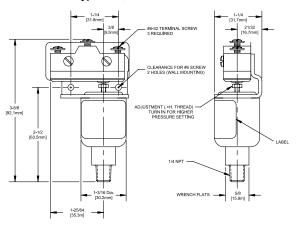




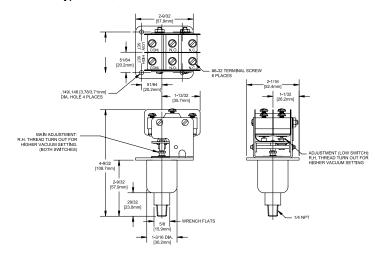
# DIMENSIONAL DRAWINGS



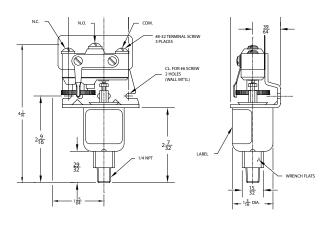




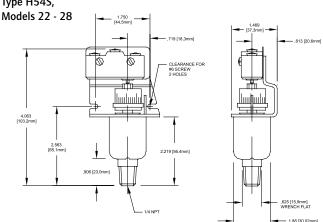
Type J54AS, Models 22 - 28



J54S, Model 16008



Type H54S,



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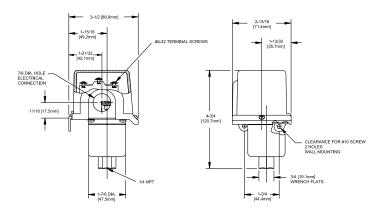
Internet: www.able.co.uk e-procurement: www.247able.com Registered in England No: 01851002 VAT No: GB 417 2481 61



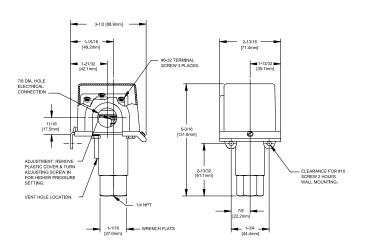




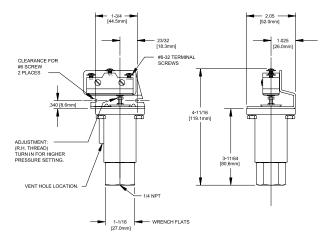
Type H54, J54, and J54A Models 126-164



Type J54 Models 610 - 614



Type J54S Models 610 - 614









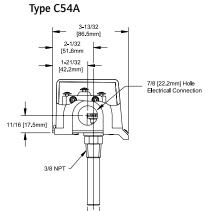




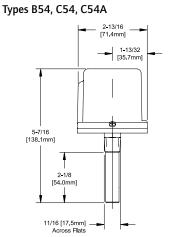
# DIMENSIONAL DRAWINGS

# **Temperature Models**

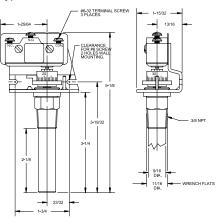
Types B54, C54 1-27/32 [46.8mm] 7/8 [22.2mm] Hole Electrical Connection 3/8 NPT 9/16 [14.3mm]

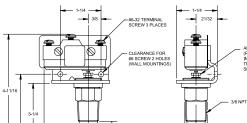


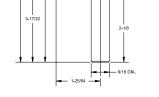
Type C54S

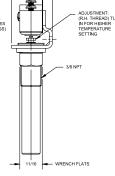


Type B54S

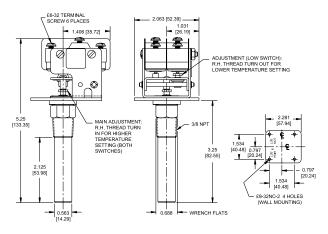








# Type C54AS



All dimensions stated in inches (millimeters)

#### **Reading Office**

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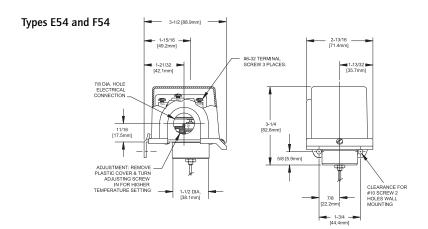
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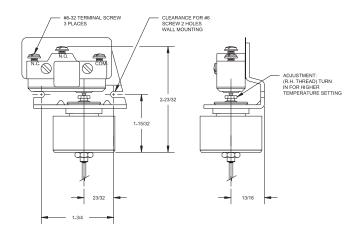






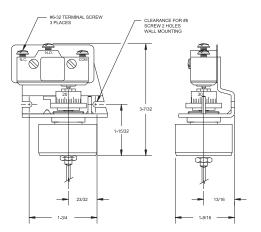


# Type F54S



Bulb Size						
Models Inches mm						
E54 & F54						
D20BC, D20BS, D22BC, D22BS	4.50	114.3				
D21BC, D21BS	6.86	174.6				
D23BC, D23BS	3.63	92.1				
E54S & F54S						
D21BC, D21BS	6.86	174.6				
D22BC, D22BS	4.50	114.3				
D23BC, D23BS	3.63	92.1				

# Type E54S







#### **RECOMMENDED PRACTICES AND WARNINGS**

United Electric Controls Company recommends careful consideration of the following factors when specifying and installing UE pressure and temperature units. Before installing a unit, the Installation and Maintenance instructions provided with unit must be read and understood.

- To avoid damaging unit, proof pressure and maximum temperature limits stated in literature and on nameplates must never be exceeded, even by surges in the system. Operation of the unit up to maximum pressure or temperature is acceptable on a limited basis (e.g., start-up, testing) but continuous operation must be restricted to the designated adjustable range. Excessive cycling at maximum pressure or temperature limits could reduce sensor life.
- A back-up unit is necessary for applications where damage to a primary unit could endanger life, limb or property. A high or low limit switch is necessary for applications where a dangerous runaway condition could result.
- The adjustable range must be selected so that incorrect, inadvertent or malicious setting at any range point cannot result in an unsafe system condition.
- Install unit where shock, vibration and ambient temperature fluctuations will not damage unit or affect operation. When applicable, orient unit so that moisture does not enter the enclosure via the electrical connection. When appropriate, this entry point should be sealed to prevent moisture entry.
- Unit must not be altered or modified after shipment. Consult UE if modification is necessary.
- Monitor operation to observe warning signs of possible damage to unit, such as drift in set point or faulty display. Check unit immediately.
- Preventative maintenance and periodic testing is necessary for critical applications where damage could endanger property or personnel.
- Electrical ratings stated in literature and on nameplate must not be exceeded. Overload on a switch can cause damage, even on the first cycle. Wire unit according to local and national electrical codes, using wire size recommended in installation sheet.
- Do not mount unit in ambient temp. exceeding published limits.

#### LIMITED WARRANTY

Seller warrants that the product hereby purchased is, upon delivery, free from defects in material and workmanship and that any such product which is found to be defective in such workmanship or material will be repaired or replaced by Seller (Ex-works, Factory, Watertown, Massachusetts. INCOTERMS); provided, however, that this warranty applies only to equipment found to be so defective within a period of 24 months from the date of manufacture by the Seller. Seller shall not be obligated under this warranty for alleged defects which examination discloses are due to tampering, misuse, neglect, improper storage, and in any case where products are disassembled by anyone other than authorized Seller's representatives. EXCEPT FOR THE LIMITED WARRANTY OF REPAIR AND REPLACEMENT STATED ABOVE, SELLER DISCLAIMS ALL WARRANTIES WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

# LIMITATION OF SELLER'S LIABILITY

Seller's liability to Buyer for any loss or claim, including liability incurred in connection with (i) breach of any warranty whatsoever, expressed or implied, (ii) a breach of contract, (iii) a negligent act or acts (or negligent failure to act) committed by Seller, or (iv) an act for which strict liability will be inputted to seller, is limited to the "limited warranty" of repair and/or replacement as so stated in our warranty of product. In no event shall the Seller be liable for any special, indirect, consequential or other damages of a like general nature, including, without limitation, loss of profits or production, or loss or expenses of any nature incurred by the buyer or any third party.

 ${\it UE\ specifications\ subject\ to\ change\ without\ notice}.$ 

#### **U.S. SALES OFFICES**

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