

CERTIFICATIONS for KPSI® Transducers
FM
UL
CE



DATE	REV	ECO	REVISION	BY	CHK	EOR
7/28/06	V	N/A	SHT 1 ADDED "E" TO B=EXCITATION, SHT2 REVISED 1. P= ENTITY PARAMETERS & 2. STAHL APPARATUS	GKP	GWH	SMK
1/11/07	W	N/A	SHT2 REVISED 1. P= ENTITY PARAMETERS, ADDED "E" ENTITY PARAMETERS.	GKP	GWH	SMK
12/12/07	Χ	3901	SHT 1 ADDED VOLTAGE SUPPRESSION OPTIONS TO 300 SERIES TRANSDUCER, REVISED ALL P/Ns, SAME ON SHT. 3 FOR SERIES 169 & 173	GKP	GWH	SMK
2/25/09	Υ	4015	RMV EXCITATION 1.2. ADD F.G.H.J. RMV PRESSURE CONN. 4.5.6.8.F.G. RMV ELEC. CONN. 3.K. RMV ENT PARAMETERSB=1,B=2, ADD B=F,G.H.J. DEL SHT 3 FROM DWG.	GKP		GWH
8/21/09	Z	4015	ADDED NOSE PIECE OPTIONS & REMOVED OPTION 2 (HIRSCHMANN) ELECTRIAL CONNECTION FROM SERIES 27, 28, & 30, SHT 1 ONLY	GKP		GWH
10/7/09	AA	4015	CORRECTED ORDER OF ALL SERIES LETTER CONFIGURATIONS, SHT 1 ONLY, REVISED CLASS GROUPS ON SHT 3.	GKP		GWH
11/4/09	AB	4015	ADDED SHEET 4	GKP		GWH
9/20/10	AC	4210	REVISED BORDER FORMAT FROM ESTERLINE TO MEASUREMENT SPECIALTIES.	GKP		GWH
9/20/10	AD	4218	ADDED ELECTRICAL CONNECTION "0" TO SERIES 27,28 & 30, LT MODEL SERIES & REFORMATTED PAGE LAYOUT SHEETS 1, 2 & 3.	GKP		GWH
4/22/11	AE	4218	CLARIFIED ENTITY PARAMETERS, SHT 2 ONLY	GKP		GWH
10/14/11	AF	8629	SERIES LT: ADDED PRESSURE & ELECTRICAL CONNECTION OPTIONS, INCREASED PRESSURE RANGE, SHT 1 ONLY	GKP		GWH
4/1/13	AG	9164	ADDED OPTIONS TO ALL SERIES, MOVED PRESSURE RANGE FROM P'N TO PRESSURE RANGE FIELD. SHT. 1 ONLY	GKP		GWH
6/21/13	AH	9164	ADDED LTR ORTION, SHT 1 ONLY	GKP		GWH
10/29/13	AH1	9164	TEXT CORRECTION TO SERIES	GKP		GWH

The Transducers listed below are designed for installation in a Class I. Division 1, Groups A, B, C and D, Class II, Division 1, Groups E, F, and G, Class III, Division 1 hazardous location when connected to Associated Apparatus as described in note 1.

Series 27FABCDG (EEEE), 28FABCDG (EEEE), 30FABCDG (EEEE)

F = material: S,T

A = pressure type: 1,3,4,7,8,9 B = excitation/output 3,4,E,F,G,H,J,K,L,M

C = pressure connection: 1,2,7

D = electrical connection: 0,1,4

G = voltage suppression: A,B,C

* EEEE = pressure range: 0-2000 PSI *Engraved in Pressure Field, not in p/n.

Series 700FABCDG (EEEE), 705FABCDG (EEEE),

710FABCDG (EEEE), 720FABCDG (EEEE), 730FABCDG (EEEE), 735FABCDG (EEEE),

745FABCDG (EEEE), 750FABCDG (EEEE)

F = material: S.T.

A = pressure type: 1,3,4,7,8,9

B = excitation/output: 3,4,E,F,G,H,J,K,L,M

C = pressure connection: A,B,C,D,E,2,7

D = electrical connection: 0,4,A,B

G = voltage suppression: A,B,C

* EEEE = pressure range: 0-304 PSI

*Engraved in Pressure Field, not in p/n.

Series 300FABCDGEEEE, 320FABCDGEEEE,

330FABCDGEEEE, 335FABCDGEEEE

F = material: S,T

A = pressure type: 1,3,4,7,8,9

B = excitation/output: 3,4,E,F,G,H,J,K,L,M

C = pressure connection: A,B,C,D,E,2,7 D = electrical connection: 0.4.A.B.

G = voltage suppression: A,B,C

* EEEE = pressure range: 0-304 PSI *Engraved in Pressure Field, not in p/n.

Series LTABCDEFGHIIIJK

A = pressure connection: A,B,C,R,1,5.7

B = excitation/output: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G

C = cable type: A,B,C

D = accuracy: A,B,C,D,E,F,T,S,R

E = intrinsic safety approvals: A,B,C

F = label: A,B,J,K

G = material: S,T

H = electrical connection: A,B,D,F,1,2

III = pressure range: 0-2000 psi

J = units: P,F,M,K

K = pressure type: G,S,A

Notes: (applies to all figures on sht 2)

1. Associated Apparatus shall provide intrinsically safe connections which meet the following parameters.

V_{max} ; For all barrier channels used.

 $I_{\text{max}}\quad$; Combined current for all barrier channels used.

; For all barrier channels used. Ci ; For all barrier channels used.

; Combined power for all barrier channels used.

Voc or $V_T \le V_{max}$

 $C_a \ge C_i + C_{leads} * L_a \ge L_i + L_{leads} *$

 $|SC \text{ or } I_T \le I_{max}$ Po or $P_T < P_i$

* Includes all cable connected to the barrier including the transducer cable.

Selected barriers must be third party approved as providing intrinsically safe circuits for the application, and have Voc or Vt not exceeding Vmax and Isc or It not exceeding Imax, and the Po of the barrier must be less than or equal to the Pmax of the intrinsically safe equipment, as shown in the Table of Entity parameters.

- 2. Control Room apparatus shall not generate in excess of 250V (U max).
- 3. Installation should be in accordance with Article 504 in the National Electrical Code, ANSI/NFPA 70 and ISA RP-12.06.01
- 4. Float unused wires in cable. Insure that these wires are electrically isolated from other conductors.

WARNING!

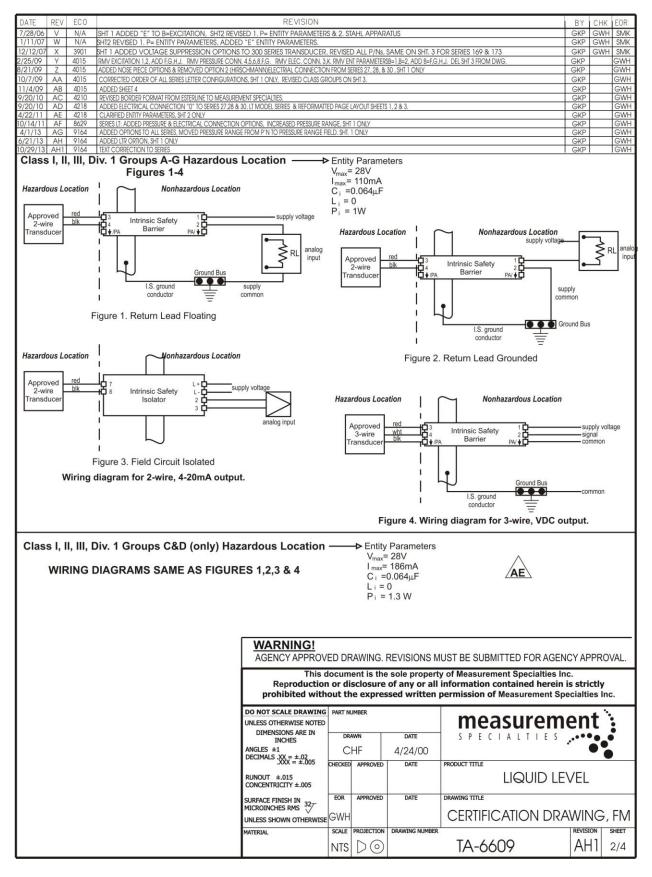
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UNLESS OTHERWISE NOTED	PART N	JMBER		measurement :		
DIMENSIONS ARE IN INCHES	DRA	AWN	DATE	SPECIALTIES.		
ANGLES ±1 DECIMALS .XX = ±.02 .XXX = ±.005	CHF		4/24/00		•	
.XXX = ±.005	CHECKED	APPROVED	DATE	PRODUCT TITLE		
RUNOUT ±.015 CONCENTRICITY ±.005				LIQUID LE\	/EL	
SURFACE FINISH IN 32-	EOR	APPROVED	DATE	DRAWING TITLE		
MICROINCHES RMS 327 UNLESS SHOWN OTHERWISE	GWH			CERTIFICATION DRA	WING, FM	
MATERIAL	SCALE	PROJECTION	DRAWING NUMBER		REVISION SHEET	
	NTS	$D \odot$		TA-6609	AH1 1/4	

Tel: 757-766-1500 Fax: 757-766-4297





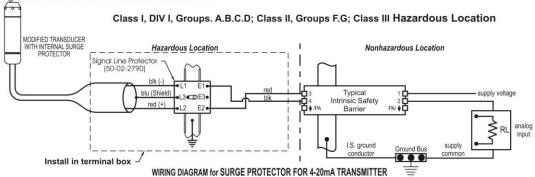


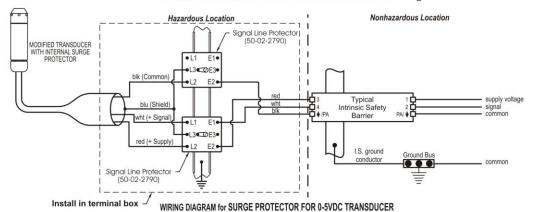
DATE	REV	ECO	REVISION	BY	CHK	EOR
7/28/06	V	N/A	SHT 1 ADDED "E" TO B=EXCITATION, SHT2 REVISED 1, P= ENTITY PARAMETERS & 2, STAHL APPARATUS	GKP	GWH	SMK
1/11/07	W	N/A	SHT2 REVISED 1. P= ENTITY PARAMETERS, ADDED "E" ENTITY PARAMETERS.	GKP	GWH	SMK
12/12/07	Χ	3901	SHT 1 ADDED VOLTAGE SUPPRESSION OPTIONS TO 300 SERIES TRANSDUCER, REVISED ALL P/Ns, SAME ON SHT. 3 FOR SERIES 169 & 173	GKP	GWH	SMK
2/25/09	Υ	4015	RMV EXCITATION 1,2, ADD F,G,H,J. RMV PRESSURE CONN. 4,5,6,8,F,G. RMV ELEC. CONN. 3,K. RMV ENT PARAMETERS8=1,8=2, ADD B=F,G,H,J. DEL SHT 3 FROM DWG.	GKP		GWH
8/21/09	Z	4015	ADDED NOSE PIECE OPTIONS & REMOVED OPTION 2 (HIRSCHMANN)ELECTRIAL CONNECTION FROM SERIES 27, 28, & 30, SHT 1 ONLY	GKP		GWH
10/7/09	AA	4015	CORRECTED ORDER OF ALL SERIES LETTER CONFIGURATIONS, SHT 1 ONLY, REVISED CLASS GROUPS ON SHT 3.	GKP		GWH
11/4/09	AB	4015	ADDED SHEET 4	GKP		GWH
9/20/10	AC	4210	REVISED BORDER FORMAT FROM ESTERLINE TO MEASUREMENT SPECIALTIES.	GKP	S 5	GWH
9/20/10	AD	4218	ADDED ELECTRICAL CONNECTION "0" TO SERIES 27,28 & 30, LT MODEL SERIES & REFORMATTED PAGE LAYOUT SHEETS 1, 2 & 3.	GKP		GWH
4/22/11	AE	4218	CLARIFIED ENTITY PARAMETERS, SHT 2 ONLY	GKP		GWH
10/14/11	AF	8629	SERIES LT: ADDED PRESSURE & ELECTRICAL CONNECTION OPTIONS, INCREASED PRESSURE RANGE, SHT 1 ONLY	GKP		GWH
4/1/13	AG	9164	ADDED OPTIONS TO ALL SERIES, MOVED PRESSURE RANGE FROM P'N TO PRESSURE RANGE FIELD. SHT. 1 ONLY	GKP		GWH
6/21/13	AH	9164	ADDED LTR ORTION, SHT 1 ONLY	GKP		GWH
10/29/13	AH1	9164	TEXT CORRECTION TO SERIES	GKP		GWH
Note			To I I was			

- 1. Install in terminal box.
- 2. Installation should be in accordance with Article 504 in the National Electric Code, ANSI/NFPA 70 and ISA RP12.06.01
- 3. The surge protector part #50-02-2790 is a passive device and as a result the device has no capacitance or inductance and it's Vmax and Imax would be identical to the connected transducer.

 However, when using the entity formula on page 2, note 1, the Ci value of the pressure transducer shall be used.

 4. The surge protector part #50-02-2790 is used with all Series Transducers on sht. 1. Not approved for use in a class E environment.
- 5. No change to 50-02-2790 this rev. Label remains at rev AF.





WARNING!

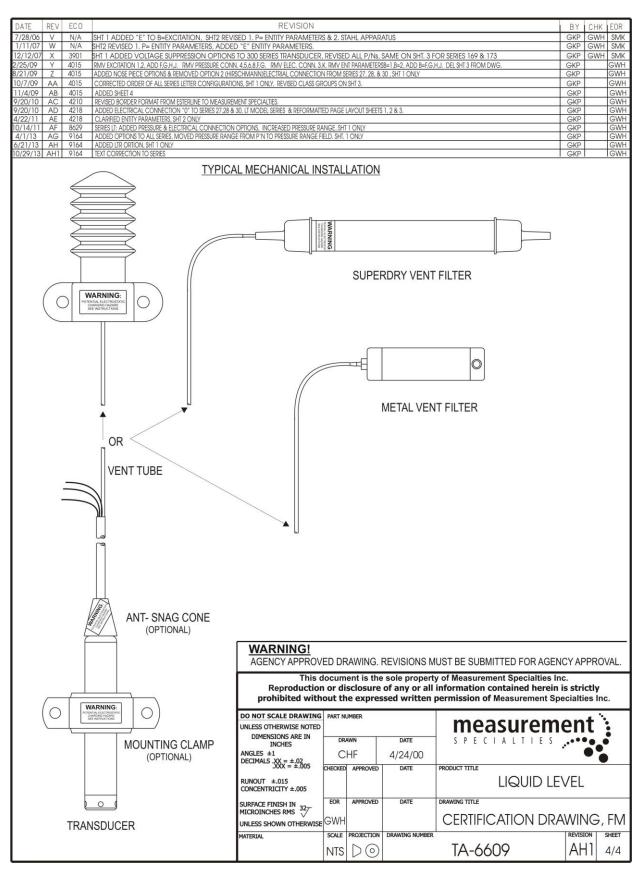
AGENCY APPROVED DRAWING. REVISIONS MUST BE SUBMITTED FOR AGENCY APPROVAL.

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				14			
DO NOT SCALE DRAWING	PART N	JMBER		**************************************			
UNLESS OTHERWISE NOTED				measurement :			
DIMENSIONS ARE IN INCHES	DRA	AWN	DATE	SPECIALTIES.		•	
ANGLES ±1 DECIMALS .XX = ±.02 .XXX = ±.005	С	HF	4/24/00		•		
.XXX = ±.005	CHECKED	APPROVED	DATE	PRODUCT TITLE			
RUNOUT ±.015 CONCENTRICITY ±.005				LIQUID LE\	/EL		
SURFACE FINISH IN 32-	EOR	APPROVED	DATE	DRAWING TITLE			
MICROINCHES RMS 52/ UNLESS SHOWN OTHERWISE	GWH			CERTIFICATION DRA	WING	FM,	
MATERIAL	SCALE	PROJECTION	DRAWING NUMBER		REVISION	SHEET	
	NTS	00		TA-6609	AH1	3/4	

Tel: 757-766-1500 Fax: 757-766-4297







DATE	REV	ECO	REVISION	BY	СНК	EOR
7/28/06	٧	N/A	SHT 1 ADDED "E" TO B-EXCITATION, SHT2 REVISED 1. P= ENTITY PARAMETERS & 2. STAHL APPARATUS	GKP	GWH	SMK
1/10/07	W	N/A	HT2 REVISED 1. P= ENTITY PARAMETERS	GKP	GWH	SMK
1/11/07	X	N/A	ADDED "E" ENTITY PARAMETERS ON SHT 2.	GKP	GWH	SMK
12/12/07	Υ	3901	SHT 1 ADDED VOLTAGE SUPPRESSOR OPTIONS TO 300 SERIES TRANSDUCERS , REVISED ALL P/Ns, SAME ON SHT. 3 FOR SERIES 169 & 173, DELETED 500 SERIES, WAS 6 SHT. DWG.	GKP	GWH	SMK
2/24/09	Z	4015	RMV EXCITATION 1,2, ADD F.G.H.J. RMV PRESSURE CONN. 4,5,6,8,F.G. RMV ELEC. CONN. 3,K. RMV ENT PARAMETERSB=1,B=2, ADD B=F.G.H.J. DEL SHT 3 FROM DWG.	GKP		GWH
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10/7/09	AB	4015	CORRECTED ORDER OF ALL SERIES LETTER CONFIGURATIONS, SHT 1 ONLY, REVISED CLASS GROUPS ON SHT 3, GENERAL PRESENTATION REVISION SHTS. 182.	GKP		GWH
9/20/10	AC	4210	REVISED BORDER FORMAT FROM ESTERLINE TO MEASUREMENT SPECIALTIES.	GKP		GWH
9/20/10	AD	4218	ADDED ELECTRICAL CONNECTION "0" TO SERIES 27.28 & 30, LT MODEL SERIES SHT 1 ONLY AND ADDED SHEET 4	GKP		GWH
4/22/11	AE	4218	CLARIFIED ENTITY PARAMETERS, SHT 2 ONLY	GKP		GWH
10/14/11	AF	8629	SERIES LT: ADDED PRESSURE & ELECTRICAL CONNECTION OPTIONS, INCREASED PRESSURE RANGE, SHT 1 ONLY	GKP		GWH
4/1/13	AG	9164	ADDED OPTIONS TO ALL SERIES, MOVED PRESSURE RANGE FROM P'N TO PRESSURE RANGE FIELD.	GKP		GWH
6/21/13	AH	9164	ADDED LTR, SHT 1 ONLY	GKP		GWH
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The Transducers listed below are designed for installation in a Class I. Division 1, Groups A, B, C and D, Class II, Division 1, Groups E, F, and G, Class III, Division 1 hazardous location when connected to Associated Apparatus as described in note 1.

Series 27FABCDG (EEEE), 28FABCDG (EEEE), 30FABCDG (EEEE)

F = material: S,T

A = pressure type: 1,3,4,7,8,9 B = excitation/output 3,4,E,F,G,H,J,K,L,M

C = pressure connection: 1,2,7

D = electrical connection: 0,1,4

G = voltage suppression: A,B,C

* EEEE = pressure range: 0-2000 PSI

*Engraved in Pressure Field, not in p/n.

Series 700FABCDG (EEEE), 705FABCDG (EEEE), 710FABCDG (EEEE), 720FABCDG (EEEE), 730FABCDG (EEEE), 735FABCDG (EEEE), 745FABCDG (EEEE), 750FABCDG (EEEE)

F = material: S.T.

A = pressure type: 1,3,4,7,8,9

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C = pressure connection: A,B,C,D,E,2,7

D = electrical connection: 0,4,A,B

G = voltage suppression: A,B,C

* EEEE = pressure range: 0-304 PSI

*Engraved in Pressure Field, not in p/n.

Series 300FABCDGEEEE, 320FABCDGEEEE,

330FABCDGEEEE, 335FABCDGEEEE

F = material: S,T

A = pressure type: 1,3,4,7,8,9

B = excitation/output: 3,4,E,F,G,H,J,K,L,M

C = pressure connection: A,B,C,D,E,2,7 D = electrical connection: 0.4.A.B

G = voltage suppression: A,B,C

* EEEE = pressure range: 0-304 PSI *Engraved in Pressure Field, not in p/n.

Series LTABCDEFGHIIIJK

A = pressure connection: A,B,C,R,1.5.7

B = excitation/output: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G

C = cable type: A,B,C

D = accuracy: A,B,C,D,E,F,T,S,R

E = intrinsic safety approvals: A,B,C

F = label: A,B,J,K G = material: S.T

H = electrical connection: A,B,D,F,1,2

III = pressure range: 0-2000 psi

J = units: P,F,M,K

K = pressure type: G,S,A

Notes: (applies to all figures on sht 2)

1. Associated Apparatus shall provide intrinsically safe connections which meet the following parameters.

V_{max} ; For all barrier channels used.

 $I_{\text{max}}\quad$; Combined current for all barrier channels used.

Ci ; For all barrier channels used.

; For all barrier channels used. ; Combined power for all barrier channels used.

 $Voc or V_T \le V_{max}$ $C_a \ge C_i + C_{leads} * L_a \ge L_i + L_{leads} * L_a$

 $|SC \text{ or } I_T \le I_{max}$ Po or $P_T < P_i$

* Includes all cable connected to the barrier including the transducer cable.

Selected barriers must be third party approved as providing intrinsically safe circuits for the application, and have Voc or Vt not exceeding Vmax and Isc or It not exceeding Imax, and the Po of the barrier must be less than or equal to the Pmax of the intrinsically safe equipment, as shown in the Table of Entity parameters.

- 2. Control Room apparatus shall not generate in excess of 250V (U max).
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- 4. Float unused wires in cable. Insure that these wires are electrically isolated from other conductors.

WARNING!

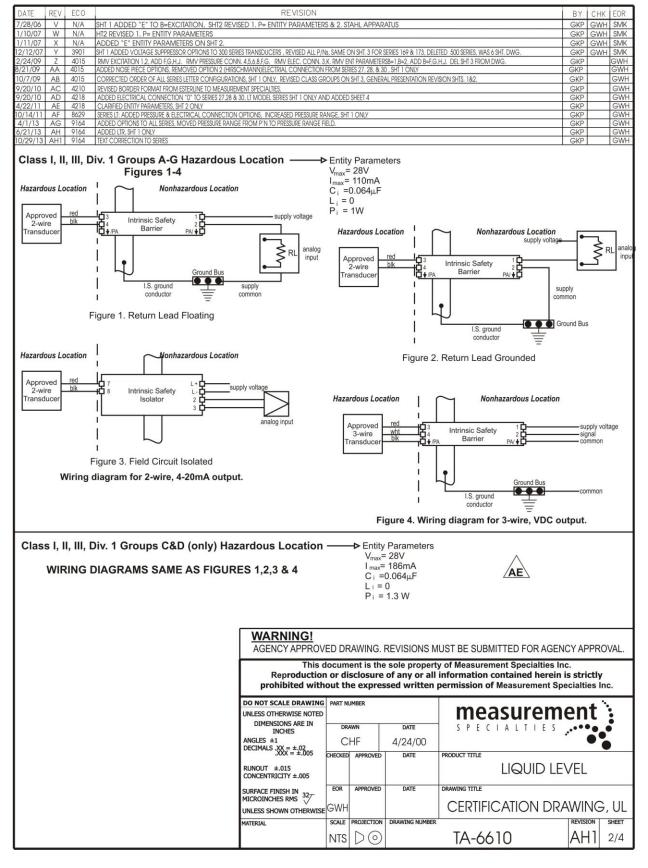
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ANGLES ±1 DECIMALS .XX = ±.02 .XXX = ±.005	С	HF	4/24/00			
$.XXX = \pm .005$	CHECKED	APPROVED	DATE	PRODUCT TITLE		
RUNOUT ±.015 CONCENTRICITY ±.005				Liquid Le\	/EL	
SURFACE FINISH IN 32-	EOR	APPROVED	DATE	DRAWING TITLE		
MICROINCHES RMS 527 UNLESS SHOWN OTHERWISE	GWH			CERTIFICATION DRA	WING	, UL
MATERIAL	SCALE	PROJECTION	DRAWING NUMBER		REVISION	SHEET
	NTS	\triangleright		TA-6610	AH1	1/4

Tel: 757-766-1500 Fax: 757-766-4297

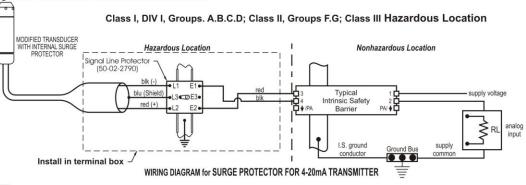


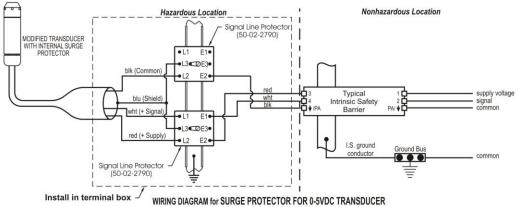




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Note	s:					

- 1. Install in terminal box.
- 2. Installation should be in accordance with Article 504 in the National Electric Code, ANSI/NFPA 70 and ISA RP12.06.01
- 3. The surge protector part #50-02-2790 is a passive device and as a result the device has no capacitance or inductance and it's Vmax and Imax would be identical to the connected transducer.
 However, when using the entity formula on page 2, note 1, the Ci value of the pressure transducer shall be used.
- 4. The surge protector part #50-02-2790 is used with all Series Transducers on sht. 1. Not approved for use in a class E environment.
- 5. No change to 50-02-2790 this rev. Label remains at rev AF.





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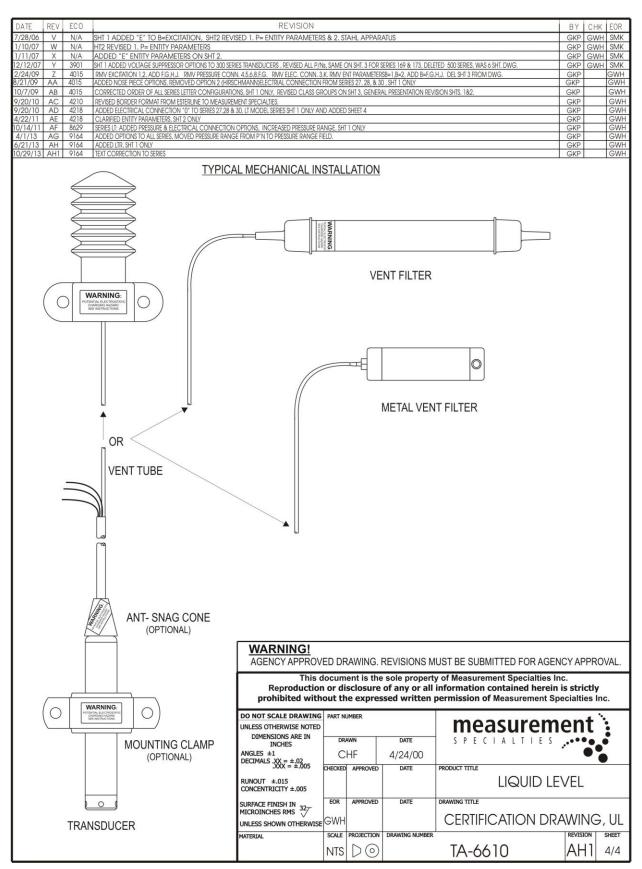
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.XXX = ±.005	CHECKED	APPROVED	DATE	PRODUCT TITLE		
RUNOUT ±.015 CONCENTRICITY ±.005				Liquid Le\	/EL	
SURFACE FINISH IN 32-	EOR	APPROVED	DATE	DRAWING TITLE		
MICROINCHES RMS 52/ UNLESS SHOWN OTHERWISE	GWH			CERTIFICATION DRA	WING, UL	
MATERIAL	SCALE	PROJECTION	DRAWING NUMBER		REVISION SHEET	
	NTS	$D \odot$		TA-6610	AH1 3/4	

Tel: 757-766-1500 Fax: 757-766-4297







C Certificate of Compliance

June 18, 2014

We,

Measurement Specialties Inc.

certify that the products listed below:

Series 27, 28, 30 Series 300DS, 320, 330, 335, 342 Series 700, 705, 710, 720, 730, 735, 745, 750

comply with the specifications published in the following standard:

EN 61326-1:2006 & EN 61326-2-3:2006 Immunity & Emmissions Standards

Including requirements of:

EN 61000-4-2	Electrostatic Discharge Immunity
EN 61000-4-3	Radiated Electromagnetic Field Immunity
EN 61000-4-4	Electrical Fast Transient/Burst Immunity
EN 61000-4-5	Surge Immunity
EN 61000-4-6	Conducted Radio-Frequency Immunity
EN 61000-4-8	Magnetic Field Immunity
CISPR11	Electromagnetic Disturbance Characteristics

Per the provisions of directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC.

97/23/EC Pressure Equipment Directive

RoHS2 – These products comply with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Certified by:

Greg Hall

Senior Design Engineer

Dugg 2. Hall

Email: greg.hall@meas-spec.com

Tel: 757-766-1500 Fax: 757-766-4297