

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132010

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

- 1. Nomenclature SHUNT DIODE SAFETY BARRIER
- 2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
- 3. Part/Model No. MTL 702
- 4. Class Requested J
- 5. Maximum Output Voltage 25V
- 6. Maximum Output Current 125mA
- 7. Barrier Input Voltage Rating 250V
- 8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION J

ISSUE NO. 28

SIGNATURE [Signature]  
19 FEB 87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 702 - 401 SHEETS 1 TO 6

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title):

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ. ENGLAND.TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132011

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 710 (+), (-), (ac)
4. Class Requested D
5. Maximum Output Voltage 10V
6. Maximum Output Current 200 mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

MSHA  
CLASSIFIED

CLASSIFICATION DISSUE NO. 14SIGNATURE K. H. D. UICK  
2/19/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 710-401,  
CI 710-402,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
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Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LT  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 27th February 1987  
Company Assigned Code No. 132040

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL715
4. Class Requested G
5. Maximum Output Voltage 15V
6. Maximum Output Current 150mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
**MSHA**  
**CLASSIFIED**

CLASSIFICATION G  
ISSUE NO. 38  
SIGNATURE K Hedrick  
3/23/87  
LABEL DESIGN ATTACHED  
*per dwgs below*

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI715-401 (3pts)

I DR Gamm, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title):

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132013

TELEPHONE NO. (0582) 23633

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 722 (+), (-)
4. Class Requested J
5. Maximum Output Voltage 22V
6. Maximum Output Current 147mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
**MSHA**  
**CLASSIFIED**

CLASSIFICATION J  
ISSUE NO. 27  
SIGNATURE K. Hedrick  
LABEL DESIGN ATTACHED 2/19/87

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 722-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
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Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ. ENGLAND.

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132014

TELEPHONE NO. (0582) 23633

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 728 (+), (-), (ac)
4. Class Requested K
5. Maximum Output Voltage 28V
6. Maximum Output Current 93mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION KISSUE NO. 21SIGNATURE [Signature]

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI728-401,  
CI728-402,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
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Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ, ENGLAND.TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132015

## GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 751
4. Class Requested B
5. Maximum Output Voltage 1V
6. Maximum Output Current 100 mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA****CLASSIFIED**CLASSIFICATION BISSUE NO. 5SIGNATURE K Hedrick  
2/19/87

LABEL DESIGN ATTACHED

## ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI751-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
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Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER 1986  
Company Assigned Code No. 132016

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL755
4. Class Requested B
5. Maximum Output Voltage 3V
6. Maximum Output Current 300mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
**MSHA**  
**CLASSIFIED**

CLASSIFICATION B  
ISSUE NO. 4  
SIGNATURE K Hedrick  
2/17/87  
LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI755-401,

I D.R. Gount, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
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Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.

Attn: MR. ANDREW CLARKE,

POWER COURT, LUTON,

BEDS., LU1 3JJ. ENGLAND.

TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132017

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 760
4. Class Requested D
5. Maximum Output Voltage 10V
6. Maximum Output Current 200mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION DISSUE NO. 13SIGNATURE X Hedrick

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 760-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.



APPLICATION LETTER  
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Mine Wide Monitoring Systems

COMPANY NAME & ADDRESS

MEASUREMENT TECHNOLOGY LTD.

Attn: MR. ANDREW CLARKE,

POWER COURT, LUTON,

BEDS., LU1 3JJ. ENGLAND.

TELEPHONE NO. (0582) 23633

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

DATE 27th February 1987  
Company Assigned Code No. 132041

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 761
4. Class Requested H
5. Maximum Output Voltage 16.2V
6. Maximum Output Current 86mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
**MSHA**  
**CLASSIFIED**

CLASSIFICATION H  
ISSUE NO. 32

SIGNATURE K. Holwick  
3/23/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 761-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title):

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ, ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 27th February 1987  
Company Assigned Code No. 132042

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 764(+)(-)
4. Class Requested G
5. Maximum Output Voltage 12.6V
6. Maximum Output Current 11mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY
<b>MSHA</b>
<b>CLASSIFIED</b>
CLASSIFICATION <u>G</u>
ISSUE NO. <u>39</u>
SIGNATURE <u>[Signature]</u> <u>3/23/87</u>
LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 764-401,

I DR Gaint, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title)

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

COMPANY NAME & ADDRESS

MEASUREMENT TECHNOLOGY LT

Attn: MR ANDREW CLARKE,

POWER COURT, LUTON,

BEDS., LU1 3JJ, ENGLAND.

TELEPHONE NO. (0582) 23633

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

DATE 27th February 1987  
Company Assigned Code No: 132043

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 764 (AO)
4. Class Requested J
5. Maximum Output Voltage 23V
6. Maximum Output Current 11mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION J

ISSUE NO. 29

SIGNATURE [Signature]  
3/23/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 to CI 700-409  
CI 764-402

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title):

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.

Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.

TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER 1986  
Company Assigned Code No. 132020

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 765
4. Class Requested G
5. Maximum Output Voltage 15V
6. Maximum Output Current 150mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA**

**CLASSIFIED**

CLASSIFICATION G

ISSUE NO. 87

SIGNATURE K. Edmunds  
2/19/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI765-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTAttn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ, ENGLAND.TELEPHONE NO. (0582) 23633

DATE 27th February 1987  
Company Assigned Code No. 132044

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 766
4. Class Requested J
5. Maximum Output Voltage 23V
6. Maximum Output Current 72mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION JISSUE NO. 30SIGNATURE Kfedjick  
3/23/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 766-401,

I DR Gault, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title):

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
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Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ, ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132023

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

- 1. Nomenclature SHUNT DIODE SAFETY BARRIER
- 2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
- 3. Part/Model No. MTL 767 (+), (-)
- 4. Class Requested G
- 5. Maximum Output Voltage 15V
- 6. Maximum Output Current 150mA
- 7. Barrier Input Voltage Rating 250V
- 8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA**  
**CLASSIFIED**

CLASSIFICATION G

ISSUE NO. 36

SIGNATURE [Signature]  
2/19/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 767-401,

I D.R. Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
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Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.

Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.

DATE 13th NOVEMBER 1986  
Company Assigned Code No. 132022

TELEPHONE NO. (0582) 23633

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL768 (+)(-)
4. Class Requested J
5. Maximum Output Voltage 22V
6. Maximum Output Current 147mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION J

ISSUE NO. 26

SIGNATURE K. H. Dwyer  
2/19/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI768-401,

I DR Garnt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
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Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ, ENGLAND.TELEPHONE NO. (0582) 23633DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132024

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 772
4. Class Requested J
5. Maximum Output Voltage 22V
6. Maximum Output Current 73mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION JISSUE NO. 25SIGNATURE Kelldrick  
7/19/87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 772-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.



APPLICATION LETTER  
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Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ, ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132025

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL778
4. Class Requested K
5. Maximum Output Voltage 28V
6. Maximum Output Current 47mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
**MSHA**  
**CLASSIFIED**

CLASSIFICATION K  
ISSUE NO. 20  
SIGNATURE K. Bednich  
19 FEB 87  
LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700 - 401 TO CI 700 - 409,  
CI 778 - 401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ. ENGLAND.TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER 1986  
Company Assigned Code No. 132026

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL779 (+), (-)
4. Class Requested K
5. Maximum Output Voltage 28V
6. Maximum Output Current 93mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION KISSUE NO. 19SIGNATURE K Hedrich

19 FEB 87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 779-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ. ENGLAND.TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER 1986  
Company Assigned Code No. 132027

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 786 (+), (-)
4. Class Requested K
5. Maximum Output Voltage 28V
6. Maximum Output Current -
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA**  
**CLASSIFIED**

CLASSIFICATION KISSUE NO. 18SIGNATURE K. H. DUCH19 FEB 87  
LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 786-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ, ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132028

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL 787 (+)(-)
4. Class Requested K
5. Maximum Output Voltage 28V
6. Maximum Output Current 93mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
**MSHA**  
**CLASSIFIED**

CLASSIFICATION K  
ISSUE NO. 17  
SIGNATURE K. Hedrich  
19 FEB 87  
LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 787-401,

I DR Gault, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ. ENGLAND.TELEPHONE NO. (0582) 23633DATE 13th NOVEMBER, 1986Company Assigned Code No. 132029

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL788
4. Class Requested K
5. Maximum Output Voltage 28V, 10V,
6. Maximum Output Current 93mA, 200mA,
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA**  
**CLASSIFIED**

CLASSIFICATION KISSUE NO. 16SIGNATURE K. K. K. K.  
19 FEB 87

LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI 700-401 TO CI 700-409,  
CI 788-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

COMPANY NAME & ADDRESS  
MEASUREMENT TECHNOLOGY LTD.  
Attn: MR. ANDREW CLARKE,  
POWER COURT, LUTON,  
BEDS., LU1 3JJ. ENGLAND.  
TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132030

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL788R
4. Class Requested k
5. Maximum Output Voltage 28V, 10V,
6. Maximum Output Current 93mA, 200mA,
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY  
~~MSHA~~  
**CLASSIFIED**  
CLASSIFICATION K  
ISSUE NO. 15  
SIGNATURE [Signature]  
19 FEB 87  
LABEL DESIGN ATTACHED

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI788-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.

APPLICATION LETTER  
Barrier Classification  
for use on  
Mine Wide Monitoring Systems

Chief, Approval and Certification Center  
Industrial Park Boulevard  
RR #1, Box 201B  
Triadelphia, West Virginia 26059

## COMPANY NAME &amp; ADDRESS

MEASUREMENT TECHNOLOGY LTD.Attn: MR. ANDREW CLARKE,POWER COURT, LUTON,BEDS., LU1 3JJ. ENGLAND.TELEPHONE NO. (0582) 23633

DATE 13th NOVEMBER, 1986  
Company Assigned Code No. 132031

GENTLEMEN:

We are requesting an evaluation of a barrier to be used on Mine Wide Monitoring Systems.

## BARRIER SPECIFICATIONS

1. Nomenclature SHUNT DIODE SAFETY BARRIER
2. Manufacturer MEASUREMENT TECHNOLOGY LTD.
3. Part/Model No. MTL796 (+), (-),
4. Class Requested K
5. Maximum Output Voltage 26V 20V
6. Maximum Output Current 87mA 51mA
7. Barrier Input Voltage Rating 250V
8. Approval Agency FACTORY MUTUAL

FOR MSHA USE ONLY

**MSHA  
CLASSIFIED**

CLASSIFICATION KISSUE NO. 14SIGNATURE [Signature]LABEL DESIGN ATTACHED  
19 FEB 87

ELECTRICAL SCHEMATIC OR DRAWING REFERENCE(S):

CI700-401 TO CI700-409,  
CI796-401,

I DR Gaunt, SEN. CERTIFICATION ENG. attest that  
(Original Signature) (Title).

MEASUREMENT TECHNOLOGY LTD. will maintain signed inspection records  
(Company)

traceable to each unit on which we affix a classification label, to insure that it  
meets all the safety requirements listed above.