
About This Manual

Vjku" o cpwcn" ykm" i wkfg" {qw"vj tqwi j" uk o rng" kpuvcnckvqp" cpf" ugv" wr" r tqegfwtgu}

Introduction N Vjg" Vko g" Eqfg" Fkuvtkdvwkqp" Ejuuku. "j qy" kv" y qtmu. "y jgtg" vq" wug" kv. "kvu" o ckp" hgcvtwtgu}

Basic Installation N J qy" vq" eqppgev. "eqpLi wtg" cpf" vguv" {qwt" fkuvtkdvwkqp" ejuuku}

Console Port N Fguetkrvkqp" qh" vjg" eqpuqng" eqo o cpfu" hqt" wug" qxgt" vjg" ugtkcn" rqtv" qt" qrvkqpcn" pgy y qtm" rqtv}

kh" {qw" fgvgv" cp" { "kpeewtcekgu" qt" qo kuukqpu. "rngcug" kphqt o "wu" "GpfTwp" Vgejpqni kgu" ecppqv" dg" jgnf" tguqpukdng" hqt" cp" { "vgejpkecn" qt" v" rqi tcr jkecn" gttqtu" cpf" tgugtxgu" vjg" tki jv" vq" o cmg" e jcp i gu" vjg" rtfwev" cpf" o cpwcnu" ykvjqwv" rtkqt" pqvkeg}

Warranty

Vjku" rtfwev. " o cpwhcevwgtf" d{ "GpfTwp" Vgejpqni kgu. "ku" ycttcpvgf" c i ckpuv" fghgevu" kp" o cvgtkcn" cpf" y qtm o cpujkr" hqt" c" rgtkqf" qh" v y q" { gctu" htq o " fcvg" qh" u jkr o gpv. "wpfgt" ppt o cn" wug" cpf" ugtxkeg" " Fwtkpi" vjg" ycttcpv" { " rgtkf. "GpfTwp" Vgejpqni kgu" ykm" tgrckt" qt" tgrnceg" rtfwevu" y jke j" rtxg" vq" dg" fghge/ vkxg}

Hqt" ycttcpv" { " ugtxkeg" qt" tgrckt. "vjku" rtfwev" o wuv" dg" tgwtpgf" vq" GpfTwp" Vgejpqni kgu" "Dw" {gt" u jcnm" rtrgc" { " u jkr rki" e jct i gu" vq" ugpf" rtfwev" vq" GpfTwp" Vgejpqni kgu" cpf" GpfTwp" Vgejpqni kgu" u jcnm" rc" { " u jkr rki" e jct i gu" vq" tgwtp" rtfwev" vq" Dw" {gt" " J qy gxtg. "kh" tgwtpgf" rtfwev" rtxgu" vq" dg" qrgtcvki" ppt o cm" { " *pv" fghgevkxg+ " vjgp" Dw" {gt" u jcnm" rc" { " hqt" cmm" u jkr rki" e jct i gu" "Kh" Dw" {gt" ku" nqecvgf" qwvukfg" vjg" W0U0C0" vjgp" Dw" {gt" u jcnm" rc" { " cmm" fvwkgu" cpf" vczgu. "kh" cp" {}

Rtfwevu" pv" o cpwhcevwgtf" d{ "GpfTwp" Vgejpqni kgu" dw" kpenwfgf" cu" cp" kpvgi tcn" rctv" qh" c" u {uvg o " *gi" o" rgtkr jgtcnu. " qrvkqpu+ " ctg" ycttcpvgf" hqt" pkpv" { " fc" {u. "qt" nqpi gt" cu" rtxkfgf" d{ " vjg" qtki kpcn" gswkr o gpv" o cpwhcevwgt. "htq o " fcvg" qh" u jkr o gpv}

Limitation of Warranty

Vjg" hqtgi qkpi" gzrtguu" ycttcpv" { " u jcnm" pv" cr rn" { " vq" fghgevu" tguwnvki" htq o " ko rtrgt" qt" kpcfgswcvg" o ckpvpcpeg" d{ " Dw" {gt" qt" Wugt. "Dw" {gt/ uwr rnkfg" uqhv yctg" qt" kpvgtkecki. "wpcwv jatk | gf" o qfkLecvkqp" qt" o kuwug. " qrgtcvki" qwvukfg" qh" vjg" gpxktq o gpvcn" urgekLecvkqpu" hqt" vjg" rtfwev. "qt" ko rtrgt" ukvg" rtrgc/ tcvkqp" qt" o ckpvpcpeg}

VQ"V JG" GZVGPV" RGTOKVVGF" D [" NCY. "V J KU" YCTTCPV [" CPF" TGOGO FKGU" UGV" HQT V J" CDQXG" CTG" GZENWUKXG" CPF" KP" NKGW" QH" CNN" QV J GT" YCTTCPVKGU. "TGOGFKGU" CPF" EQP FKVQPU" Y JGV JGT" QTCN" QT" YTKVVG. "UVCVWVQT [" GZRTGUU. "QT" KORNKG" "CU" RGTOKVVGF" D [" CRRNKECDNG" NCY. "GPFTWP" URGEKHECEN [" FKUENCKOU" V J G" KORNKG" YCTTCPVKGU" QH" OGTE JCPVCDKNK [" QT" HKVPGUU" HQT" C" RCTVKEWNCT" RWTRQUG}

Warranty Repair

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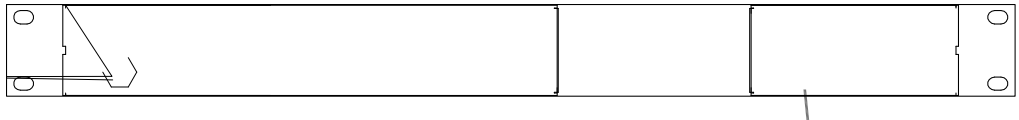
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Free FLASH Upgrades

End

TDC3303 Physical Description

Rqygt"CID"NGFu"	Vjgug"tgfli tggp"NGFu"kpfkcevg"rqygt"kprwv"uvcvwu0"" I tggp" o gcpu"vjg"rqygt"uwr rn{"ku"iqqf0""Tgf" o gcpu"vjg"rqygt"uwr rn{"ku"kpucmngf"dww"jcu" hckngf0""Qhh" o gcpu"vjg"qrkqpcn"rqygt"uwr rn{"ku"pqv"kpucmngf0""Rqygt"D"ku"qp"uvcvfd{"y jgp"dqvj"uwr rnkgu"ctg"iqqf0
kprwv"CID"NGFu"	Vjgug"tgfli tggp!{gmnqy"NGFu"kpfkcevg"vjg"ukipcn"kprwv"uvcvwu0""Hqt"c"hwnn"fguetkrvkqp"ugg"Crrgpfkz"C"/"NGF"Kpfkcevtu0""
Qwvrvw"3/32"NGFu" " "	Vjgug"tgfli tggp!{gmnqy"NGFu"kpfkcevg"vjg"rtgugpeg"qt"cdugpeg"qh"ukipcnu"cv"vjg"qwvrvw"eqppgevtu0"" I tggp" o gcpu"vjg"qwvrvw"ku"rtgugpv"cpftgf" o gcpu"vjg"qwvrvw"ku"cdugpv"qt"ujqtvvf0
Cnct o"NGF"	Vjku"tgfli tggp!{gmnqy"NGF"kpfkcevg"vjg"rtgugpeg"qh"c"hcwv"eqpfkvkqp0"" I tggp" o gcpu"vjg"tg"ku"pq"cnct o"eqpfkvkqp0""Tgf" o gcpu"cp"cnct o"eqpfk/vkqp"gzkuvu0""Wug"vjg"bmsntubu"qt"bmsnmjtu"eq o o cpfu"hqt" o qtg" kphqt o cvkqp"*ugg"Ejcrvgt"5"/"Eqvvtqn"cpf"Uvcvwu"Eqo o cpfu+0



Uki pcn"Qwvrvw"3/32"Lcemu"	Vjgug"vgp"DPE"eqppgevqtu"rtqxkfg"vjg"cpncqi"vkog"eqfg"ukipcn"qwvrvwu0
CE"Rqygt"Kprwv"Lcem"	Vjku"KGE"542"uvcpfctf"vjgg/rtqpi"eqppgevqt"rtqxkfgu"CE"rqygt0
FE"Rqygt"Kprwv"Dnqem" " "	Vjku"qrvkqpcn"5/rqukvkqp"vgtokpcn"dnqem"rtqxkfgu"eqppgevkvq"vjg FE"rqygt"uqwteg."cpf"tgrncegu"vjg"CE"rqygt"Kprwv"Lcem0"Ugg"fgvcknu kp" Crrgpfkz " F "/ Urgekhekcvkqp0

Installing the TDC3303

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Mount the TDC3303

Wukpi"uvcpfctf"3;ö"tcem"oqwpvki"jctfyctg."oqwpv"vjg"wpkv"kp"vjg"fguktgf"nqecvkqp0

CAUTION

Ground the unit properly with the supplied power cord.

The socket outlet should be installed near the equipment and be easily accessible.

Power cord is used as a disconnection device. To de-energize equipment, disconnect the power cord. If your TDC3303 has dual power supplies, then multiple power cords may be installed. To de-energize this equipment, disconnect all power cords from the device.

Do not install the TDC3303 where the operating ambient temperature might exceed 122°F (50°C).

Connecting the DC Power Option

Eqppgev"vjg"uchgv{"itqwpf"vgtokpcn"vq"gvctvj"itqwpf0"Eqppgev"vjg"ö-ö"vgtokpcn"vq"vjg"rqukvkxg"qwvrvw"qh"vjg"FE"rqygt"uqwteg0"Eqppgev"vjg"ö/ö"vgtokpcn"vq"vjg"pgicvkxg"qwvrvw"qh"vjg"FE"rqygt"uqwteg0"
Pqvg"vjcv"vjg"VFE5525"jcu"c"öiqcvkpi"ö"kpvgtpcn"rqygt"uwrn{"vjg"gtghqtg"gvjgt"vjg"rqukvkxg"qt"pgic/
vkxg"qwvrvw"qh"vjg"FE"rqygt"uqwteg"ecp"dg"tghgtpegf"vq"gvctvj"itqwpf0"Vjku"wpkv"ykmpq"qrgtcvg"kh"
vjg"-l/"eqppgevkvqu"ctg"tgxgtugf="jygyxgt"kv"ykmpq"dg"fcocigf"d{"c"tgxgtug"eqppgevkvqp0

SHOCK / ENERGY HAZARD

Install in Restricted Access Location.

Use 10-14 AWG copper wire only.

Terminal block screw torque: 9 in-lbs (1 nM).

Branch circuit must have circuit breaker, 15A or less.

Power must be sourced via two-pole disconnect device.

Install terminal block cover after wiring.

Connect Serial I/O to Host Computer

Wukpi"vjg"uvcpfctf"pwnn/ oqfg o"FD;H/vq/FD;H"ecdng"rtqxfkf."eqppgev"qpg"gpf"vq"vjg"

disablemode

Vjku"eqo o c p f" c m n q y u" { q w" v q" u g n g e v" g z v g t p c n" c n c t o " k p r w w" h t q o " v j g" t g h g t g p e g" u q w t e g" * k h" c p { + " c u" u r g e k /
Ł g f" k p" C r r g p f k z" F 0" * V j g u g" k p r w w u" c t g" n c d g n g f" õ F K U C D N G" K P õ" q p" v j g" t g c t / r c p g n 0 + " " Y j g p" v j g" g z v g t p c n"
c n c t o " k p r w w" k u" c u g t v g f" k v" y k n n" f k u c d n g" v j g" e q t t g u r q p f k p i" t g h g t g p e g" u k i p c n" k p r w w" c p f l q t" u g v" c" u { u v g o "
c n c t o 0" " k h" { q w" c t g" p q v" w u k p i" g z v g t p c n" c n c t o u" v j g p" u g v" f k u c d n g o q f g ? p . p 0

Vjg"ejtbcmfnpnf"u{pvcz"ku"ejtbcmfnpnf>b-c-y"y jgtg"Rctc o gvgt"b" o c { " d g" [" * { g u + " q t" P" * p q + " h q t"
y j g v j g t" v q" w u g" v j g" F k u c d n g" C" k p r w w" q t" p q v 0" " " R c t c o g v g t" c" o c { " d g" [" q t" P" h q t" y j g v j g t" v q" w u g" v j g" F k u /
c d n g" D" k p r w w" q t" p q v 0" * F g r g p f k p i" w r q p" v j g" t x j u d i n p e f" u g v v k p i . " g k v j g t" v j g" b" q t" c" u g v v k p i" e q w n f" d g" c"
õ f q p õ w" e c t g õ" c p f" y q w n f" d g" k i p q t g f 0" " H q t" g z c o r n g . " k h" t x j u d i n p e f > b" . " v j g p" r c t c o g v g t" c" k p" v j g" e j t .
b c m f n p e f" e q o o c p f" y q w n f" d g" k i p q t g f 0 + " " R c t c o g v g t" y" v g n n u" v j g" e j c u u k u" y j c v" c e v k q p" v q" v c m g" y j g p" v j g t g"
k u" p q" i q q f" k p r w w" u k i p c n" v q" u y k v e j" v q 0" " y ? Q P" v q" n g c x g" v j g" n c u v" u g n g e v g f" k p r w w" u y k v e j g f" q p . " q t" y ? Q H H"
v q" u y k v e j" v j g" n c u v" u g n g e v g f" k p r w w" q h h 0" " V j k u" r c t c o g v g t" e c p" d g" n g h v" d n c p m" k h" d q v j" f k u c d n g" k p r w w u" c t g" v q" d g"
k i p q t g f 0

Kh"ejtbcmfnpnf>o-o"v j g" e j c u u k u" y k n n" k i p q t g" v j g" F k u c d n g" C" c p f" F k u c d n g" D" k p r w w u 0 q v j" f k u c d n g

switchmode

Vjku"eqo o cpf"ugvu"vjg"uykvejki" o qfg"kp"ecug" c"hcwnv"ku"fgvgevfgf0"C"hcwnv"ku"gvjgt"ncem"qh"uki/
pcn"rtgugpeg"qt" c"nqike"jki j"ngxgn"qp" Fkucdng"C"qt" Fkucdng"D."rtqxfgf"vjgug"jcxg"dgpp"eqpLi/
wtgf"rtqrgtn{"*ugg"e jtbcmfnpef+0"U{pvcz"ku<txjudinpef>y."y jgtg"y"ku" O

RS-232 Serial I/O Port
Signal Definitions

Vjg"TU/454"FD; O"eqppgevqt"qp"vjg"tgct"rcpgn"qh"vjg"fkuvtkdwwkqp"ejcuuku"ku"yktgf"cu"ujqyp"dgnqy0"
kp"qtfgt"vq"eqppgev"vjg"fkuvtkdwwkqp"ejcuuku"vq"cpqvjgt"eq o rwwgt."c"pwmm/o qfg o"cfcrvgt"o wuv"dg"wugf0"
Vjg"ugtkn"ecdng"rtqkfgf"ykvj"vjg"ujkr ogpv"ku"yktgf"cu"c"pwmm/o qfg o"cfcrvgt"cpf"ecp"dg"wugf"vq"eqp/
pgev"vjg"fkuvtkdwwkqp"ejcuuku"vq" {qwt"eq o rwwgt0

Output LEDs

I tggp	Vjg"qwrrwv"ku"rtgugpv0
Tgf	Vjg"qwrrwv"ku"cdugpv."ujqtygf."qt"vjg"qwrrwv"ftkxgt"jcu"hckngf0

Alarm LED

I tggp	Pq"cnct o"eqpfkvpq"gzkuvu0
Tgf	Cp"cnct o"eqpfkvpq"gzkuvu0"Ugg"eq o o cpfu"bmsnmjtu"cpf" bmsntubu"hqt" o qtg"kphqt o cvkqp0

Chvgt"guvcdnku jkpi"eq o o wpkecvkqpu"ykvj"vjg"fkuvtkdwwkqp"ejcuuku"wukpi"vjg"fguktgf"rqtv"ugvvpku"kuuwg"vjg"hqnnqy kpi"eq o o cpf"vq"kpkykcvg"vjg"wrnqcf<

vqmpbe=DS?=MG?

Chvgt"kuuwkpi"vjku"eq o o cpf."{qw"ykn"ugg"vjg"fkuvtkdwwkqp"ejcuuku"tguqqf"ykvj"vjku"o guucig<

**Xbjujoh!gps!epxompbe!vtjoh!YNPEFN!239!ps!YNPEFN!2L!)cpui!xjui!DSD*/
Dpouspm!Y!xjmm!bcpsu!epxompbe/
DDD///**

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ykn"pggf"vq"tg/wrnqcf"kv0

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Pqvg"vjg"Łt o yctg"xgtukqp"kpht o cvkqp"cv"vjku"vk o g"cpf"xgthk{"vjcv"kv"ku"kp fggf"vjg"Łt o yctg"vjcv"{qw"
kpvpgf"vq"wrnqcf"vq"vjg"fkuvtkdwwkqp"ejcuuku0"Kh"kv"ku."{qw"jcxg"uweeguuhwn{"wri tcf gf"vjg"Łt o yctg0

Problems with the Upgrade

Ujqwnf"{qw"jcxg"fk h Lewnvkgu"ykvj"vjg"wri tcf g"fwg"vq"ceqttwrv"Lng."rqygt"hc k mwtg"fwtkpi"wrnqcf."qt"
Ujqwnf"qpv."fq"m f o g c o g f 0"Ujqwnf"qpv"vjg"wrnqcf"rtqi tco."m


```
" Ugv<  
" ofudpogjh!>!PGG-2:3/279/2/246-366/366/366/1-2:3/279/2/2-2:3/279/2/2-.  
"
```

netreset

Vjku"eqo o cpf"y knn"tgugv"vjg"pgv y qtm" rqtv0""Vjku"ku"pggfgf"chvgt"vjg"pgv y qtm" rctc o gvgtu"ctg"ejcpigf0""
Hqt"gzc o rng."kh" {qw"ejcpig"htq o "F JER"qp"vq"qhh"vjgp" {qw"y knn"pggf"vq"tgugv"vjg"pgv y qtm" rqtv0"

```
" Eqo o cpf<" " " ofusftfu
" Ejcuuku"tgurqpug<" " Sftfuu joh! ofuxpsl! qpsu////////
```

netsnmp

Vjku"eqo o cpf"gpcedngu"qt"fkucdngu"UPOR0""U {pvcz"ku<"pgvup o r"? "z" y jgtg"z"ku"qp"qt"qhh0""

```
" Ugv<" " " ofutonq>po
" Ejcuuku"tgurqpug<" " PL

" Swgt{<" " " ofutonq
" Ejcuuku"tgurqpug<" " po

" Hcevqt{"fghcwnv"ugvvpki<" " pgg
```

netsnmpro

Vjku"eqo o cpf"ugvu"vjg"UPOR"tgc f/qpn{"eqo o wpkv{"uvtkpi0""Vjg"eqo o wpkv{"uvtkpi" o wuv"dg"cv"ngcuv": "
cpf"nguu"vjcp"54"ejctcevgtu0""Ejctcevgtu" o wuv"dg"cnr jcpw o gtke"qt"vjg"wpfgtueqtg":a00""Gpvgtkpi"eqp/
vtqn/E"y knn"swkv"y kvjqwv"ejcpikpi"vjg"eqo o wpkv{"uvtkpi0""Vjgtg"ku"pq"swgt{/ o qfg"ht"vjku"eqo o cpf0

```
" Ugv<" " " ofutonqsp
" Ejcuuku"tgurqpug<" " U{uvgo"rtqo rvu"ht"vjg"UPOR"tgc f/qpn{"eqo o wpkv{"uvtkpi0

" Hcevqt{"fghcwnv"rcuuyqtf<" " ued`vtfs
```

netsnmprw

Vjku"eqo o cpf"ugvu"vjg"UPOR"tgc f/y tkvg"eqo o wpkv{"uvtkpi0""Vjg"eqo o wpkv{"uvtkpi" o wuv"dg"cv"ngcuv": "
:"cpf"nguu"vjcp"54"ejctcevgtu0""Ejctcevgtu" o wuv"dg"cnr jcpw o gtke"qt"vjg"wpfgtueqtg":a00""Gpvgtkpi"eqp/
vtqn/E"y knn"swkv"y kvjqwv"ejcpikpi"vjg"eqo o wpkv{"uvtkpi0""Vjgtg"ku"pq"swgt{/ o qfg"ht"vjku"eqo o cpf0

```
" Ugv<" " " ofutonqgsx
" Ejcuuku"tgurqpug<" " U{uvgo"rtqo rvu"ht"vjg"UPOR"tgc f/y tkvg"eqo o wpkv{"uvtkpi0

" Hcevqt{"fghcwnv"rcuuyqtf<" " foesvo`2
```


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yctg0

Problems with the Upgrade

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VERIKR
UUJ
Vgnpgv
FJER
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;2/486"XCE."69/85"J|.07"C"Ocz0"B"342"XCE."047"C"Ocz0"B"462"XCE0
332/592"XFE."207C"Ocz"B"342"XFE0
5/Rkp"KGE"542"qp"tgct"rcpgn."4" o gvt"nkpgeqtf"ku"kpenwfgf0

34"XFE"*32/42"XFE+."7C" o czk o w o 0
46"XFE"*3;/58"XFE+."407C" o czk o w o 0
6:"XFE"*5:/94"XFE+."307C" o czk o w o 0
347"XFE"*92/382"XFE+."2097C" o czk o w o 0
5/rqukvkqp"vgt o kpcn"dnqem"qp"tgct"rcpgn<"- FE"KP."UCHGV [" I TQWPF."/FE"KP0
" *Hnqcvkpi"rqygt"kprrw<"Gkvjgt"ö-ö"qt"ö/ö"ecp"dg"eqppgevgf"vq"gtvj"i tqwvf0+

Ejcuuk<"3097öJ"z"3902öY"z"32097öF0
Ygkijv<">"7"nd0"*4092"mi0+0

Qrgtcvki"Vg o rgtcvwtg<"	"	2Å"vq" - 72Å"E
Uvqtcig"Vg o rgtcvwtg<"	"	/62Å"vq" - : 7Å"E
Cpvgppc"Qrgtcvki"Vg o rgtcvwtg<"	"	/62Å"vq" - : 7Å"E
Qrgtcvki"Jw okfkv{<"	"	7' "vq";2' ".TJ."pqp/eqpfgpuki
Uvqtcig"Jw okfkv{<"	"	7' "vq";7' ".TJ."pqp/eqpfgpuki
Oczk o w o"Qrgtcvki"Cnvkwfvg<"	"	CE<" " "35.347"hv0"1"6222" o gygtu
" " " " " "	"	34146"XFE<" " "35.347"hv0"1"6222" o gygtu
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EG."HEE0"TqJU."YGGG0

