

CHALLENGER 8 INPUT EXPANSION MODULE TS0021

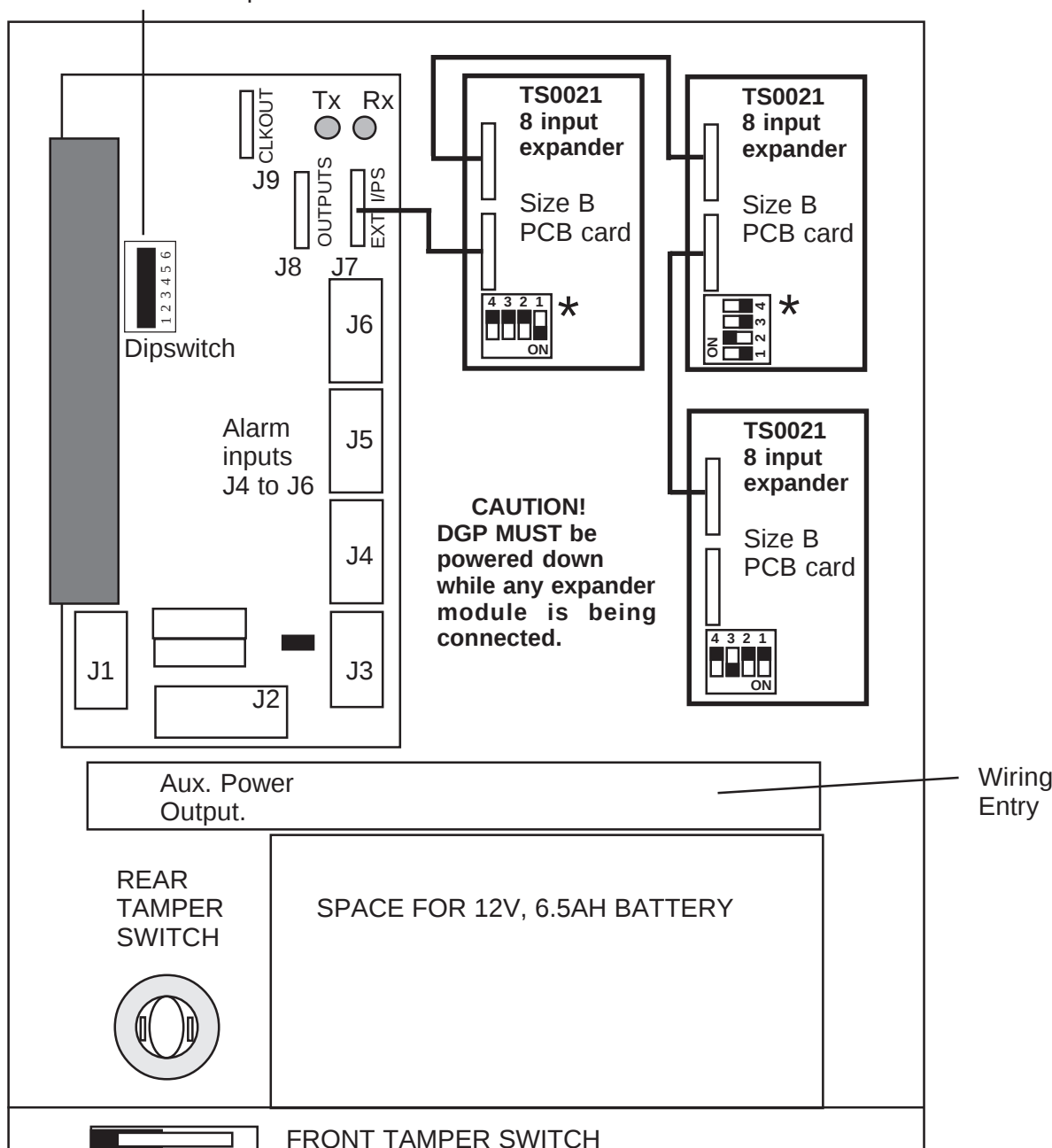
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Revised! — see *Protective Earthing Addendum*

INSTALLATION GUIDE

Dipswitch 5 ON if 2 or 3 expanders are fitted.
i.e. If DGP has 24 or 32 inputs.

*Note: Orientation of DIPSwitch
may vary as illustrated.



Connections: - Headers and sockets.

EXT I/PS: **J2** Connection to DGP & other 8 Input Expansion Cards via 10 way cable supplied with the expander card.
 J3

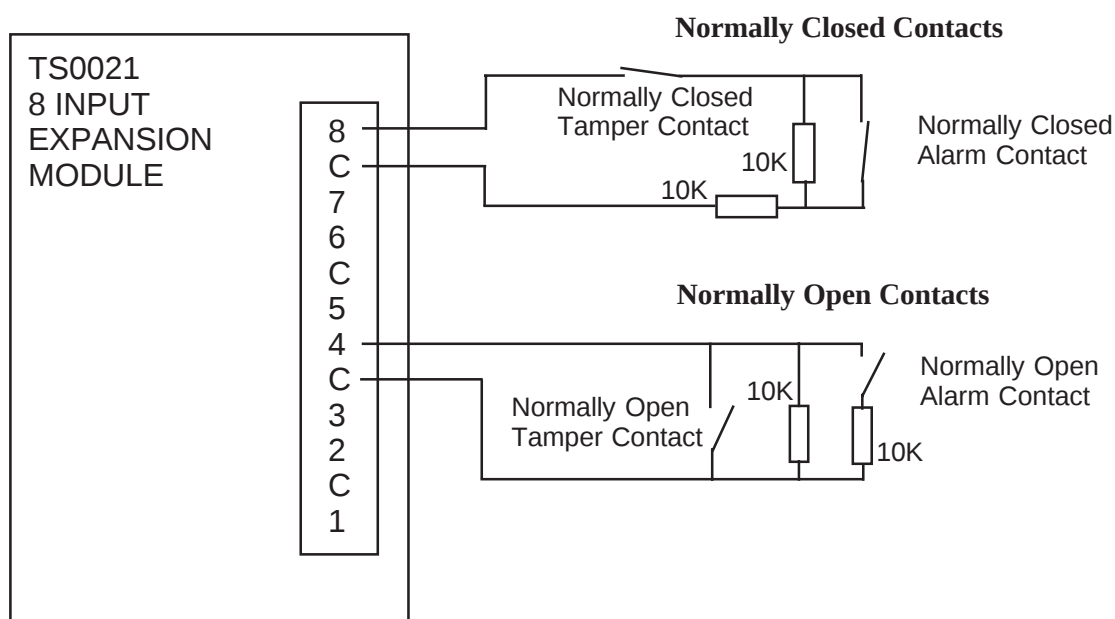
DGP MUST be powered down while an expander is being connected.
DIPswitch 5 on the DGP MUST be set to ON if 2 or 3 exp. cards are connected.

Dipswitches 1 to 3 on the expansion card are used to identify the expander number:
 Set **DIPswitch 1 to ON on the 1st expansion card**- 9th to 16th inputs.
 Set **DIPswitch 2 to ON on the 2nd expansion card** - 17th to 24th inputs.
 Set **DIPswitch 3 to ON on the 3rd expansion card** - 25th to 32nd inputs.

(See table on page 2)

Connections: - 5mm Plug On Screw Terminals.

J1: 8 Require 10k End-Of-Line Resistor for Seal.
 C 5k or 20k for Unsealed.
 7 Open or Short circuit for Tamper condition if "Input Tamper Monitoring" enabled
 6 in the System options.
 C (See below)
Alarm
Inputs 5
 4
 C
 3
 2
 C
 1



Input Numbering:

A standard 8 I/P DGP can have 8 inputs connected to it. This can be expanded in increments of 8, up to 32, using the TS0021 8 I/P expanders. (A DGP can have 8, 16, 24 or 32 inputs)

There are 16 inputs allocated to every DGP address.

If a DGP has 24 or 32 inputs (2 or 3 expanders fitted), the additional system input numbers are taken from the following DGP Address. If this is done, **the next DGP address ceases to exist and is not included to be polled.**

e.g. DGP 1 has 24 inputs (Inputs 17 to 40). The next DGP in the system must now be addressed and polled as DGP 3, because inputs 33 to 40 on DGP 1 have been taken from DGP 2. The unused input numbers in the system (Inputs 41 to 48) must be programmed in the Input Database as Type 0.

See table below.

Input Numbering:

Chall	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DGP1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
DGP2	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
DGP3	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
DGP4	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
DGP5	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DGP6	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
DGP7	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
DGP8	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
DGP9	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
DGP10	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
DGP11	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
DGP12	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
DGP13	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
DGP14	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
DGP15	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256

Caution!

If a DGP already has one TS0021 expander module fitted and the next DGP number is already being used, then no more expanders may be fitted to the DGP.

e.g. If DGP 1 has an expander module (total 16 inputs) and DGP 2 is already in the system and programmed to be polled, then DGP 1 cannot have any more expanders fitted.



N4131

Please note, this product conforms to the standards set by Standards Australia on behalf of the Australian Telecommunications Authority (AUSTEL) and the Spectrum Management Agency (SMA).

WARNING:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

The Challenger is designed and manufactured by:

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