

# **INSTALLATION INSTRUCTIONS**

**MODEL WKP-8**

**WINDOWS KEYPANEL**

***RTS***<sup>TM</sup>

## GENERAL DESCRIPTION

The Windows Keypanel interfaces your IBM compatible PC to any Telex Digital Matrix Intercom System. The Windows Keypanel provides eight intercom talk/listen key pairs, plus call waiting, right on your computer monitor screen. Additional on-screen controls include a programming keypad, intercom volume control, and shortcut function keys for page, phone, point-to-point, IFB and party line assignment. Plus, there is an input level function key that lets you set listen levels for individual intercom channels (works with ADAM and ADAM CS intercoms only).

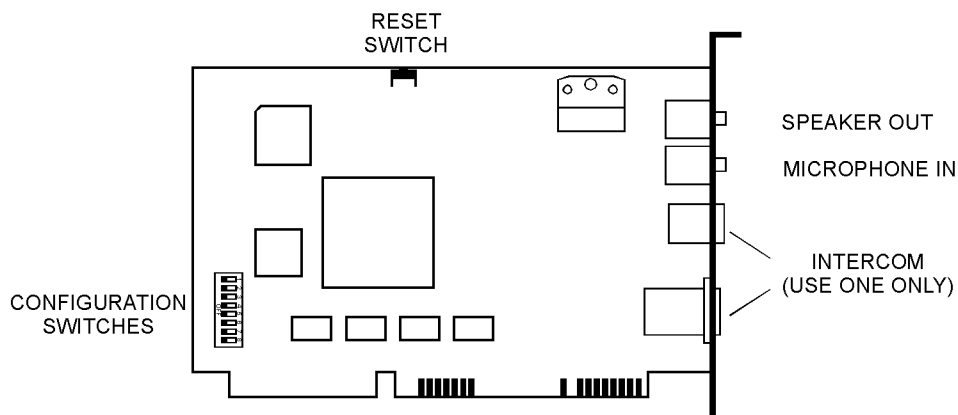
## PACKAGE CONTENTS

The Windows Keypanel Package Contains:

- 1 Windows Keypanel ISA Circuit Card
- 1 Speaker
- 1 Speaker Cord
- 1 Microphone
- 1 Software diskette
- 1 Installation Manual\*
- 1 Operation Manual\*

\* File with your intercom system documentation.

## INSTALLATION PROCEDURE



### Setting the I/O Address

Configuration switches 1-4 set the low and high I/O address for communication with the computer. The high address setting depends on the low address setting. For example, if the low address is set to 0000, the high address will be 0020. The available settings are shown in Table 1.

The default factory setting uses 0280 as the low address. However, since hardware configurations will vary from one computer to another, it is not possible to define a correct setting for every case. The recommended procedure is to install the Windows Keypanel Card using the default setting, and then check for normal operation. If the Windows Keypanel does not work correctly due to a conflict with another device, simply reset the DIP switches to another setting and check operation again.

**Table 1**  
**DIP Switch Settings for I/O Address Setting**

DIP SWITCH POSITIONS				LOW ADDRESS	HIGH ADDRESS
SW1	SW2	SW3	SW4		
ON	ON	ON	ON	0000	0020
ON	ON	ON	OFF	0040	0060
ON	ON	OFF	ON	0080	00A0
ON	ON	OFF	OFF	00C0	00E0
ON	OFF	ON	ON	0100	0120
ON	OFF	ON	OFF	0140	0160
ON	OFF	OFF	ON	0180	01A0
ON	OFF	OFF	OFF	01C0	01E0
OFF	ON	ON	ON	0200	0220
OFF	ON	ON	OFF	0240	0260
OFF	ON	OFF	ON	0280	02A0
OFF	ON	OFF	OFF	02C0	02E0
OFF	OFF	ON	ON	0300	0320
OFF	OFF	ON	OFF	0340	0360
OFF	OFF	OFF	ON	0380	03A0
OFF	OFF	OFF	OFF	03C0	03E0

## Logical Keypanel Address

Configuration switches 5-7 set the logical keypanel address for communication with the intercom system. Settings are summarized in Table 2. Note: DIP Switch 8 is not used.

### Determining the Logical Keypanel Address for CS9XXX Intercoms

For intercom port numbers ending in 1 through 8, the address is the last digit of the port number. Port numbers ending in 0 or 9 cannot be used with the Windows Keypanel.

### Determining the Logical Keypanel Address for ADAM and ADAM CS Intercoms

Determine the address using Table 3.

## Installing the Circuit Card

### CAUTION!

Static electricity discharge can permanently damage your computer and the Windows Keypanel Card. Discharge any static electricity buildup on your body by touching an exposed metal part of the computer case before unplugging the computer.

1. Turn off the power to your computer and any other connected devices.
2. Unplug all power cords for the computer and any connected devices.

**Table 2**  
**DIP Switch Settings for Logical Keypanel Address Selection**

DIP SWITCH POSITIONS			LOGICAL KEY PANEL ADDRESS
SW5	SW6	SW7	
OFF	OFF	OFF	1
ON	OFF	OFF	2
OFF	ON	OFF	3
ON	ON	OFF	4
OFF	OFF	ON	5
ON	OFF	ON	6
OFF	ON	ON	7
ON	ON	ON	8

3. Remove your computer's cover and locate an available 16-bit ISA expansion slot. Refer to your computer manual for details.
4. Inside the computer, remove the expansion slot cover for the selected slot. Retain the cover mounting screw. It will be used to secure the Windows Keypanel Card.
5. Insert the Windows Keypanel Card firmly into the selected slot until it is completely seated. Try to avoid contact with the card's edge connector and components during insertion.
6. Install the expansion slot cover screw to secure the Windows Keypanel Card.
7. Replace the cover and reconnect the power cords. Be aware, however, that you may have to remove the cover again to change the I/O address setting if the Windows Keypanel Card conflicts with another device in the computer.

## **Connections**

### **Speaker**

Plug the speaker cord into the SPKR OUT jack on the Windows Keypanel Card and into the speaker.

### **Microphone**

Plug the microphone into the MIC IN jack on the Windows Keypanel Card.

### **Intercom**

Use either FRAME connector (but not both) to connect the Windows Keypanel Card to a port of the intercom system. Make sure that the port you use is appropriate based on the logical keypanel address that you set on the Windows Keypanel Card. Use a standard intercom station cable.

## **Installing the Software**

Insert the Windows Keypanel Disk into the computer and run the setup program on the disk. Follow the on-screen instructions to install the software onto your computer.

## Checking the Installation

Double-click on the Windows Keypanel icon to start the program. The Windows Keypanel should appear on the screen, and asterisks should briefly display above the talk keys. After a few moments, the key assignments should appear in the displays. Or, if no key assignments have been programmed, the displays should show dashes.

If the Windows Keypanel is unable to communicate with the intercom system the displays will continue to show dashes. Check the intercom cable connection.

If there is a conflict with another device in the computer, the Windows Keypanel or the other device may operate erratically or not at all. Or, the computer may lock up. If this happens, shut off the computer, disconnect power, remove the computer cover and try another setting for the I/O address DIP switches on the Windows Keypanel Card. You may have to try several settings before locating one that works.

## Connector Pin Assignments

### Speaker

Type: 1/8-in. (3.5 mm) 2-conductor phone jack

Tip: Speaker “plus”

Ring: gnd

### Microphone

Type: 1/8-in. (3.5 mm) 2-conductor phone jack

Tip: Mic “plus”

Ring: gnd

### Intercom

#### RJ-11 Modular Style Connector

- |   |                                    |
|---|------------------------------------|
| 1 | Data “minus”                       |
| 2 | Audio from intercom system “plus”  |
| 3 | Audio to intercom system “plus”    |
| 4 | Audio to intercom system “minus”   |
| 5 | Audio from intercom system “minus” |
| 6 | Data “plus”                        |

#### DE9S 9-Pin Female D-sub

- |   |                                    |
|---|------------------------------------|
| 1 | Data “plus”                        |
| 2 | Data “minus”                       |
| 3 | Audio from intercom system, shield |
| 4 | Audio to intercom system “plus”    |
| 5 | Audio to intercom system “minus”   |
| 6 | Data shield                        |
| 7 | Audio from intercom system “minus” |
| 8 | Audio from intercom system “plus”  |
| 9 | Audio to intercom system, shield   |

**Table 3**  
**Correspondence between Logical Keypanel Numbers and Port Numbers**  
**for ADAM and ADAM CS Intercom Systems**

Logical Keypanel Address	Port Numbers																								
	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	145	153	161	169	177	185	193
1	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	145	153	161	169	177	185	193
2	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	146	154	162	170	178	186	194
3	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	147	155	163	171	179	187	195
4	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	148	156	164	172	180	188	196
5	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	149	157	165	173	181	189	197
6	6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142	150	158	166	174	182	190	198
7	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143	151	159	167	175	183	191	199
8	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200
1	201	209	217	225	233	241	249	257	265	273	281	289	297	305	313	321	329	337	345	353	361	369	377	385	393
2	202	210	218	226	234	242	250	258	266	274	282	290	298	306	314	322	330	338	346	354	362	370	378	386	394
3	203	211	219	227	235	243	251	259	267	275	283	291	299	307	315	323	331	339	347	355	363	371	379	387	395
4	204	212	220	228	236	244	252	260	268	276	284	292	300	308	316	324	332	340	348	356	364	372	380	388	396
5	205	213	221	229	237	245	253	261	269	277	285	293	301	309	317	325	333	341	349	357	365	373	381	389	397
6	206	214	222	230	238	246	254	262	270	278	286	294	302	310	318	326	334	342	350	358	366	374	382	390	398
7	207	215	223	231	239	247	255	263	271	279	287	295	303	311	319	327	335	343	351	359	367	375	383	391	399
8	208	216	224	232	240	248	256	264	272	280	288	296	304	312	320	328	336	344	352	360	368	376	384	392	400
1	401	409	417	425	433	441	449	457	465	473	481	489	497	505	513	521	529	537	545	553	561	569	577	585	593
2	402	410	418	426	434	442	450	458	466	474	482	490	498	506	514	522	530	538	546	554	562	570	578	586	594
3	403	411	419	427	435	443	451	459	467	475	483	491	499	507	515	523	531	539	547	555	563	571	579	587	595
4	404	412	420	428	436	444	452	460	468	476	484	492	500	508	516	524	532	540	548	556	564	572	580	588	596
5	405	413	421	429	437	445	453	461	469	477	485	493	501	509	517	525	533	541	549	557	565	573	581	589	597
6	406	414	422	430	438	446	454	462	470	478	486	494	502	510	518	526	534	542	550	558	566	574	582	590	598
7	407	415	423	431	439	447	455	463	471	479	487	495	503	511	519	527	535	543	551	559	567	575	583	591	599
8	408	416	424	432	440	448	456	464	472	480	488	496	504	512	520	528	536	544	552	560	568	576	584	592	600
1	601	609	617	625	633	641	649	657	665	673	681	689	697	705	713	721	729	737	745	753	761	769	777	785	793
2	602	610	618	626	634	642	650	658	666	674	682	690	698	706	714	722	730	738	746	754	762	770	778	786	794
3	603	611	619	627	635	643	651	659	667	675	683	691	699	707	715	723	731	739	747	755	763	771	779	787	795
4	604	612	620	628	636	644	652	660	668	676	684	692	700	708	716	724	732	740	748	756	764	772	780	788	796
5	605	613	621	629	637	645	653	661	669	677	685	693	701	709	717	725	733	741	749	757	765	773	781	789	797
6	606	614	622	630	638	646	654	662	670	678	686	694	702	710	718	726	734	742	750	758	766	774	782	790	798
7	607	615	623	631	639	647	655	663	671	679	687	695	703	711	719	727	735	743	751	759	767	775	783	791	799
8	608	616	624	632	640	648	656	664	672	680	688	696	704	712	720	728	736	744	752	760	768	776	784	792	800
1	801	809	817	825	833	841	849	857	865	873	881	889	897	905	913	921	929	937	945	953	961	969	977	985	993
2	802	810	818	826	834	842	850	858	866	874	882	890	898	906	914	922	930	938	946	954	962	970	978	986	994
3	803	811	819	827	835	843	851	859	867	875	883	891	899	907	915	923	931	939	947	955	963	971	979	987	995
4	804	812	820	828	836	844	852	860	868	876	884	892	900	908	916	924	932	940	948	956	964	972	980	988	996
5	805	813	821	829	837	845	853	861	869	877	885	893	901	909	917	925	933	941	949	957	965	973	981	989	997
6	806	814	822	830	838	846	854	862	870	878	886	894	902	910	918	926	934	942	950	958	966	974	982	990	998
7	807	815	823	831	839	847	855	863	871	879	887	895	903	911	919	927	935	943	951	959	967	975	983	991	999
8	808	816	824	832	840	848	856	864	872	880	888	896	904	912	920	928	936	944	952	960	968	976	984	992	1000