## 3. Digital operation

You can operate the *TURN-CONTROL* with any **LocoNet compatible digital central controller** (i.e. TWIN-CENTER 6802) **and DCC Systems**.

Rotating the bridge is also possible via the LocoNet or similarly by decoding the DCC commands which are received from the rail signals.

The programmed track exits, 1-99, correspond to the electrical article adresses 201 to 299. Pressing the **red key** on the TWIN-CENTER means that the bridge hut end of the turntable will rotate to the selected track exit. By pressing the **green key** on the TWIN-CENTER, the end opposite the hut end will be turned around to the selected track exit.

If you press the red, or green, key on the TWIN-CENTER and the bridge is **already in the correct, desired position**, you will only be selecting the **active side of the bridge**, then it will not rotate through 180°.

A **180° rotation** of the bridge, left or right can be started with the electrical accessory address **200**: **red-right** (clockwise), **green-left** (anti-clockwise).

Using the *TURN-CONTROL* in conjunction with a **Märklin Control-Unit 6021** is possible by connecting the **LocoNet** via a LocoNet-Adapter Art. 63820 from Uhlenbrock which is then connected to the 6021.

**Receiving valid data** via the LocoNet or from the track feed (DCC) will be indicated in the display by the symbol "**->·**". The symbol remains active until the selected position has been reached.

The *TURN-CONTROL* will not react to **invalid** DCC or LocoNet commands, but will show the error symbol "⚠" together with an error code (see appendix).

If a **new selected position** of the bridge is transmitted via DCC or the LocoNet, then the *TURN-CONTROL* indicator will also immediately turn to the new selected position.

The *TURN-CONTROL* will not react to a **reset** via DCC or LocoNet, it will continue to function as normal.

**LocoNet** commands have **precedence over DCC commands.** If a LocoNet is recognised, then a decoding of DCC commands will be switched inactive.

Using an **electrical accessory command**, it will not be the 48 possible positions of the bridge which will be addressed, but the **programmed track exits** with the pre-progammed numbers **1 to 99**. If you use an erroneous electrical accessory command, then you cannot start an erroneous rotation!
This way (you have 99 possible track exit numbers at your disposal) by using different numbers on different turntables, by use of several *TURN-CONTROL* units, you can remotely control several turntables. Please make a careful note of which numbers you have used for each turntable as you cannot use the same track exit number **more than once.** Also, these numbers must not be used by other electrical accessories on your layout.

*Advice: Using TWIN-CENTER 6802, version 1.0 and 1.1, at first you must assign the electrical accessory addresses according to the electrical accessory address table (see Appendix).*

## 4. Appendix

This appendix shows some of the specialities of the *TURN-CONTROL*.

Errors will be indicated in the display with this symbol "⚠" and one of the following code numbers.
Indicating:

**1** When programming, the selected track exit is already allocated.

**2** The equipment was tuned off by interruption of the power feed and is in the intermediate position awaiting a new switch on.

**3** When rotating the bridge the rest point was reached too soon.

**4** When rotating the bridge the rest point was reached too late.

**5** In DCC or LocoNet operation wrong exit selected.

**6** Short Circuit

**7** No turntable connected, likewise – connection broken.

To the table beneath: For controlling, the adresses 200 to 299 are to be used, the data format is “DC“. Refer to TWIN-CENTER under „Basic settings-> switch settings of dig. addr. of virtual electrical accessory decoders“ (see TWIN-CENTER-manual).

*TURN-CONTROL*-**DCC-addresses of the track exits.**

| Digit. Addr. | exit 1 | exit 2 | exit 3 | exit 4 |
|---|---|---|---|---|
| 50 | | | | 200 |
| 51 | 201 | 202 | 203 | 204 |
| 52 | 205 | 206 | 207 | 208 |
| 53 | 209 | 210 | 211 | 212 |
| 54 | 213 | 214 | 215 | 216 |
| 55 | 217 | 218 | 219 | 220 |
| 56 | 221 | 222 | 223 | 224 |
| 57 | 225 | 226 | 227 | 228 |
| 58 | 229 | 230 | 231 | 232 |
| 59 | 233 | 234 | 235 | 236 |
| 60 | 237 | 238 | 239 | 240 |
| 61 | 241 | 242 | 243 | 244 |
| 62 | 245 | 246 | 247 | 248 |
| 63 | 249 | 250 | 251 | 252 |
| 64 | 253 | 254 | 255 | 256 |
| 65 | 257 | 258 | 259 | 260 |
| 66 | 261 | 262 | 263 | 264 |
| 67 | 265 | 266 | 267 | 268 |
| 68 | 269 | 270 | 271 | 272 |
| 69 | 273 | 274 | 275 | 276 |
| 70 | 277 | 278 | 279 | 280 |
| 71 | 281 | 282 | 283 | 284 |
| 72 | 285 | 286 | 287 | 288 |
| 73 | 289 | 290 | 291 | 292 |
| 74 | 293 | 294 | 295 | 296 |
| 75 | 297 | 298 | 299 | |