Naztec Version 50 Software

Training Unit 2B
TS2 Type 2 Configuration and Setup
**TS2 Operating Types**

- **TS2 Type 1**
  - Provides a high speed serial data link (SDLC) that interfaces the controller, cabinet, conflict monitor (MMU) and detector rack
  - Serial data is converted to separate inputs and outputs through a BIU (bus interface unit)

- **TS2 Type 2**
  - Adapts the newer TS-2 controller and MMU to a TS-1 cabinet using the A-B-C connectors defined in the TS-1 specification.
  - TS-2 does not define a separate D-connector; however, the Naztec 980 controller provides a D-connector option for backward compatibility with existing systems
**TS2 Type 2 – I/O Modes**

- Pin connections for the A-B-C connectors are given in section 3.4.5.1 of the TS2 specification.
- Eight modes are defined by the TS2 standard to provide I/O typically provided through a D-connector. These modes are selected by grounding three status bits A, B and C as per TS2 specification 3.4.5.2 – 17.
- If these inputs are not grounded, the operation defaults to Mode 0 where the A-B-C connectors are defined as TS1 (typically used when a Type 2 controller is used in a TS1 cabinet with an existing D-connector).
- The external inputs can also be overridden through the “IO Mode” unit parameter (see MM->1->2->, last entry).
D-CONNECTOR I/O MAPPING

• Selecting the 'D' connector mapping is done using the Channel Parameters screen.
  – This screen is accessed by the following sequence:
    Main Menu (MM) -> 1 -> 3 -> 3
  – Use TX2-V14 mapping for standard preempt and count inputs
The cabinet flash input can be selected from using the following key sequence:

- MM->1->4->1 and changing the input source from D-CONN (D connector) to TEST-A or TEST-B inputs
The Operating Mode is selected when the controller is initialized. Turn the “Run Timer” OFF (MM->1->7) and select one of the following modes from MM->8->4:

- NONE – writes zero values into entire database
- STD-8ø – standard 8 phase / dual ring operation
- DIAMOND – Texas Diamond Controller Specification

The Phase Mode is selected from the Unit Parameters screen (MM->1-> 2 -> 1):

- STD8 - standard 8 phase / dual ring operation
- USER - use this if more than 8 phases or 2 rings are desired
- Qseq – phases 1 / 2 / 3 / 4 / 7 / 8 in ring 1
- 8Seq – all 8 phases in ring 1
- DIAM - Texas diamond controller phasing