CC: I Argyros, JED, R FERTS, MSK, CCM, L Newslan, JDO'S, KTOYLON, BWHILEDOW, WELD, ASY.



CSIRO DIVISION OF RADIOPHYSICS

THE AUSTRALIA TELESCOPE

AT/25.1.1/044

Data Set Types and Options
The Dick Ferris 26-Feb-87

Data Sets come in three flavours. primarily representing different numbers of analog channels fitted. One option provides communications with the controller via 500hm coaxial cable.

Types

The different types are known by their module system designations D1, D2 and D3. Type D3 provides the full set of analog and digital functions, D2 omits the single ended analog inputs and some of the single bit control and monitor points, while D1 is as for D2 but without any analog inputs. The available control and monitor points are defined in Tables 1 and 2. Table 3 indicates the required connectors.

Table 1. Control Points

Function	Base	Index Range		
	•	D1	02	D3
Single Bit Digital Out	64	09	09	031
Addressed 8 Bit Out	96	063	063	063
Addressed 16 Bit Out	160	063	063	063
Decoded Addr. 8 Bit Out	224	03	03	03
Decoded Addr. 16 Bit Out	228	03	03	03
Internal Register Write	232	023	023	023

Table 2. Monitor Points

Function	Base	Index Range		
		D 1	D2	D3
Balanced Analog In	0	n.a.	07	07
Unbalanced Analog In	. 8	n.a.	n.a.	055
Single Bit Digital In	64	09	09	031
Addressed 8 Bit In	96	063	063	063
Addressed 16 Bit In	160	063	063	063
Decoded Addr. 8 Bit In	224	03	03	03
Decoded Addr. 16 Bit In	228	03	03	03
Internal Register Read	232	023	023	023
Multiplexed Analog In	256	n.a.	063	063

Table 3. Connectors

	D1	D2	D3
J1	*	*	#
J3		•	*
K1	•	•	*
К3	*	*	*

Options

Option 01: Under great duress (or for a generous consideration) connectors J2 and K2 may be fitted to provide serial communications with the controller on 500hm coax, as an alternative to the normal RS-422 balanced line. The signal MODESEL on J1 selects the desired mode of operation.

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