INTERFACE PDP-8E ______

Products	:	Teletype 30 Series.	
Category	:	TG	
Kit No.	:	MKT/ITF/01 4	
Modification	:	Interface to connect PDP-8E (PDP-11, PDP-15) to Teletype model 33 ASR with UCC6.	

1. GENERAL

This modification provides the possibility to connect computer PDP-8E (PDP-11, PDP-15) to Teletype model 33 ASR with UCC6. This concerns connection of the input/output circuit and external control of the Teletype reader in on-line mode. The Teletype model 33 ASR is equipped with call control unit UCC6.

2. DOCUMENTATION REQUIRED

For standard wiring information: see Teletype diagram set WDP 0316.

3. THEORY OF OPERATION (see figure MKT/ITF/01/1)

The Teletype 33 ASR has been wired for full-duplex operation and 20 mA input current SMD.

Connection of a 14 VDC voltage between pt. 2 and pt. 9 of circuit card GEA 018-2A causes operation of relay RLA. Operation of relay RLA closes contact A and if "Reader on/off control" is in the on-position and the local/line switch is in the line-position, the reader trip magnet is operated and in consequence the reader is switched on.

In the local-situation contact A has no influence, because it is shortened by the local/line switch. In this case there is no question of external readercontrol.

The input- and output-circuits of Teletype 33 ASR are connected to the PDPcomputer via Molex-connector J2/P2 directly.

- Notes: . pin nrs. 1, 3 and 4 of circuit card GEA 018-2A are used to operate relay A by means of other voltages
 - . suppression-filters are mounted over contacts L1-2 and 1-2 of the local/line switch
 - . this modification may be used without any changes in combination with the modifications MKT/RDS/01 reader step and MKT/RCA/01 reader control automatic
 - . Teletype keyboard must be wired for 8th bit always mark. In some cases a non-parity Altmode keyboard (UK 800) is necessary (arrangement with customer).

MODIFICATION KIT CONTENTS 4.

Quantity	Part No.	Description
1	GEA 018-2A	circuit card, including wiring
2	153631 TTY (or eq.)	suppression-filter
1	34070 Amp (or 35115 Amp)	wire-connector
1	P	interface cable, 6 wire, 4 m length with mounted:
(1	182540 TTY	Molex-connector, 15 pins, marked"2")
(1	1-480460-0 Amp	connector AMP male N-lock ;

- 5. INSTALLATION (see figures MKT/ITF/01/1 and 01/3)
 - 5.1 Disconnect the mains supply.
 - 5.2 Remove the Teletype cover.
 - 5.3 Wire Teletype 33 ASR for full-duplex operation (see Teletype diagram set WDP 0316, sheet 1180 SD-B4).
 - 5.4 Wire Teletype 33 ASR for 20 mA input-current SMD (see Teletype diagram set WDP 0316, sheet 1180 SD-B1).
 - 5.5 Mount circuit card GEA 018-2A to call controlunit UCC6 (see figure MKT/ITF/01/3).
 - 5.6 Remove blue wire from pin 3 of connector P4 in the UCC6.
 - 5.7 Connect this blue wire to the blue wire of circuit card GEA 018-2A pt. 6, by means of the Amp wire-connector.
 - 5.8 Connect blue/white wire of circuit card GEA 018-2A pt. 7 to L2 of the UCC6 local/line switch.
 - 5.9 Connect white wire of circuit card GEA 018-2A pt. 8 to L1 of the UCC6 local/line switch.
 - 5.10 Connect following wiring of circuit card GEA 018-2A to connector P2 of the UCC6:

circuit	card	GEA 018-2A	pt.	1	to	connector	P2	pin	2	
"		11						pin		
н	11	11	pt.	3	11	11	11	pin	13	
			pt.	4	===	"	11	pin	14	
11	11	11	pt.			**	11	pin	15	
11		11	pt.			"	11	pin	12	

- 5.11 Mount the suppression-filters over contacts L1-2 and 1-2 of the local/ line switch.
- 5.12 Connect the interface cable to connector P2 of the UCC6.
- 5.13 Modify Teletype keyboard for 8th bit always mark (see Teletype diagram set WDP 0316, sheet 9334 WD). If a non-parity Altmode keyboard is asked for, the existing keyboard must be replaced by keyboard UK 800.
- 5.14 Replace the Teletype cover.
- 6. ADJUSTMENTS

None.

7. TEST

Simulate the signals, as provided by the computer usually, according to following diagram:







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C1 - 220,4F 16V D1 - BYX 36 D2 - 1N914 R1 - 1k8 5,5W R2 - 390 1/4W RLA-NATIONAL RH 12V Z1 - 1N963A 1/3W

COMPONENTS LAY OUT CIPCUIT CARD GEA 018-2A

	1
G	geveke
	gevene

Geveke Electronics and Automation International

INTERFACE PDP 8E (PDP 11, PDP 15)

Datum	Wijz.	Par.	Opm	Tek.nr.
9/08/74		T.R.		MKT/ITF/01/2
	1			1

TTY CALL CONTROL UNIT UCC 6

