ELECTRONIC SYSTEMS ®

chapter:

DAP 128TC

2.4.4

Application

- full duplex transfer of monitoring signals and control commands
- transfer of binary and analogue information up to the distance of 10 km without modems or repetitive amplifiers
- ideal for monitoring and control of vast objects (airports, mines, shipyards, etc.)

Description/Properties

- it is composed of one central unit DAP 128TC and several terminals containing I/O modules (input/output modules)
- modular concept, easy diagnostics
- central unit can handle up to 16 independent lines per one communication line
- it is possible to connect parallelly up to 16 I/O modules
- feeding of monitoring I/O modules
- modules via communication line
- data transmission by sinusoidal signal with use of multiplex time division
- high reliability and low requirements concerning quality of communication cable
- galvanically separated data transfer lines protected against short circuit and over-voltage
- communication with superior system (e.g. AMS) with use of serial line RS-232 or 100 Base-T

Technical parameters

- number of bits transferred during one cycle 128
- duration of one transfer cycle 0,5 sec
- signal voltage on data transfer line ±30 Vpeak (60 Vp-p)
- nominal value of data transfer line impedance 600 Ω
- recommended diameter of conductor of data transfer line 0,5–0,8 mm (AWG 24-20)
- maximal total resistance of data transfer line conductor 750 Ω
- maximum bridgeable distance 10 km (AWG 20)
- minimum insulation resistance of data transfer line 2 MΩ

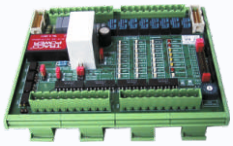


Central Unit SD-16

Central Unit CUD-02



I/O modules DRT-24





I/O modules RT-24



I/O modules DTX-08, DRX-08





Module BO-02 - overvoltage protection of two independent transmission lines of system DAP 128TC

BASIC TYPES OF CENTRAL UNITS	CUD-04	SD-16.4	SD-16.8	SD-16.12	SD-16.16
execution	mount. rail TS 35	19"	19"	19"	19"
number of independent data transfer lines	4	4	8	12	16
number of address positions on data transfer lines	64	64	128	192	256
range of working temperatures	-5/+50° C	-5/+50° C	-5/+50° C	-5/+50° C	-5/+50° C

BASIC TYPES OF TERMINALS	PS-02.0	PS-02.1	PS-02.2	PS-02.3	SU-24B.RT	TCR.2
execution	suspension racks	suspension racks	suspension racks	suspension racks	19" racks	CCR
maximum number of I/O modules	1	2	5	12	20	1

BASIC TYPES OF I/O MODULES DAP 128TC	DTX-08	DRX-08	DRT-24	RT-24	TCR.2
execution	mounting rail TS-35	mounting rail TS-35	mounting rail TS-35	plug-in module	module COM-DAP
maximum number of inputs	7	0	14	14	internal
maximum number of outputs	0	7	7	7	internal
max. No. of occupied address positions on data transfer	1	1	3	3	2

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TÜV CERT EN ISO 9001-2001

chapter:

2.4.4 DAP 128TC

