



DESCRIPTION

The 10-2528, Digital Alarm Communicator Transmitter (DACT) is used in Fike's CyberCat™ 254/1016, CyberCat™ 50, Cheetah Xi™ and Cheetah Xi™ 50 control systems where point identification of alarm, supervisory and trouble events is required at a Central or Remote Receiving Station. An intelligent RS485 connection transmits all system information to the DACT.

The DACT also includes 5 programmable point inputs that can be individually configured for seven types of conditions: Fire Alarm, Waterflow Alarm, Supervisory, Monitor Alarm, System Fault, AC Failure, and Low Battery. These inputs can be used in place of the intelligent RS485 connection to provide simple alarm monitoring where the receiving station is not capable of receiving point ID information.

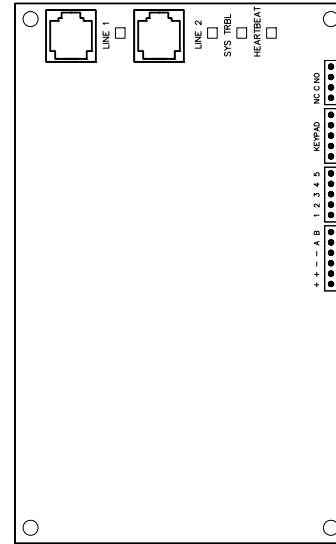


Exhibit 1 DACT

Note: The 10-2528 DACT is the same as the Bosch FPT-DACT-LC; however, the DACT must be purchased from Fike if using the intelligent RS485 connection for proper point ID interface.

Note: Where remote mounting of the DACT is preferred, P/N 10-2476 should be ordered. This is the Bosch FPT-DACT, which includes its own mounting enclosure. Refer to the documentation supplied with the DACT for installation instructions.

SPECIFICATIONS

Power Consumption:	150mA @ 24VDC standby 190mA @ 24VDC alarm
Dimensions (LxWxD):	6.5" x 4" x 1" (16.5cm x 10.2cm x 2.5cm)
Weight:	0.32 lb. (0.15 kg)
Operating Temp:	32°F to 120°F (0°C to 49°C)
Operating Humidity:	93% RH, non-condensing
Trouble Relay:	One Form C, 1A @ 30VDC

COMMUNICATIONS

The DACT can transmit point ID information in any of the following reporting formats: Contact ID, Modem IIIa, SIA110, SIA300 and 4/2. The receiving station must have the capability to receive point information from the DACT. The following table provides a listing of compatible receivers.

Exhibit 2 Compatible DACT Receivers

Compatible Receivers (X)	Reporting Format			
	Contact ID	SIA 300	SIA 110	4/2
Radionics D6500	X			X
Radionics D6600	X	X	X	X
Sur-gard SG-SLR	X	X	X	X
Osborne/Hoffman Quick Alert Model II	X	X	X	X
Ademco	X			X
Silent Knight SK9000				X

The DACT uses two supervised phone lines to transmit signals in accordance with typical system requirements. It follows all UL requirements for monitoring and testing of the phone lines. It also follows requirements for properly transmitting signals in the event of a line failure.

The DACT is supervised by the Fike control panel. Trouble with the DACT will be reported on the system and transmitted to the receiving station on one of the phone lines. The DACT does not include a separate audible device for trouble annunciation. It does include on-board LEDs for heartbeat, system trouble, and telephone line trouble (one per line).

OPERATION

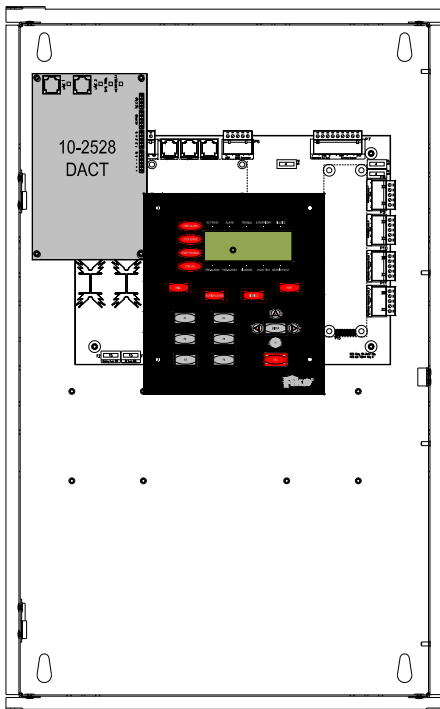
When an event occurs, the DACT sends corresponding reports to the monitoring station by priority according to NFPA requirements. Fire and waterflow alarms are sent first, followed by supervisory alarms, trouble reports followed by all other system reports.

The intelligent RS485 connection transmits a four digit account code followed by a three digit event code, a two digit group number, and a three digit contact number, all of which are used to provide specific point identification to the monitoring system.

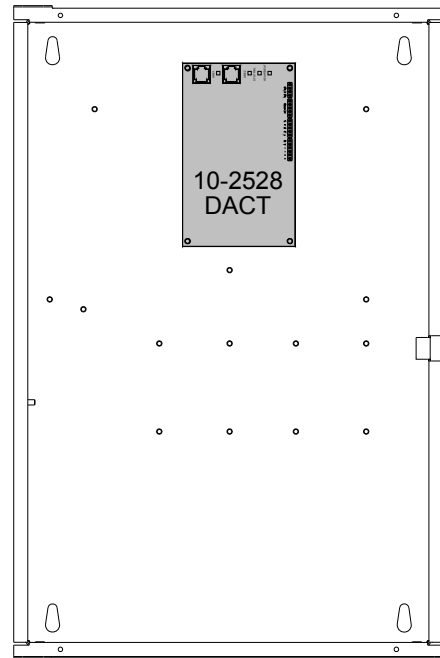
MOUNTING LOCATION

The DACT mounting location varies depending upon the control panel enclosure it is to be installed into. Exhibits 3 and 4 show the appropriate DACT mounting location for each compatible control panel enclosure.

When installing the DACT in the CyberCat™ 50 or Cheetah Xi™ 50 enclosures, the DACT must be installed before installation of the control board.



**Exhibit 3 CyberCat™ 254/1016
and Cheetah Xi™ DACT Installation**



**Exhibit 4 CyberCat™ 50 and Cheetah Xi™ 50
DACT Installation**

INSTALLATION

Installation and wiring should be performed by qualified personnel only. Equipment damage and/or malfunction may result from improper installation. Disable all critical system functions and remove all power from the system until the installation is complete and ready for testing.

The DACT is installed onto the threaded press studs provided in the back of the enclosure using the following mounting hardware supplied with the card:

Standoff Hardware Kit, P/N 02-12037

- 02-11751 6-32 hex. Standoff, 2" long, F/F
(CyberCat™ 254/1016 and Cheetah Xi™)
- 02-11833 6-32 hex. Standoff, .625 long, F/F
(CyberCat™ 50 and Cheetah Xi™ 50)
- 02-1589 6-32 x .375 phillips pan head screw

CAUTION

The DACT circuit board contains static sensitive components. Handle the electronics by the edges only and avoid touching the integrated components. Keep the electronics in the protective static bag it was shipped in until time for installation. Always ground yourself with a proper wrist strap before handling the module(s). If the installer is properly grounded at all times, damage due to static discharge will not occur. If the module requires repair or return to Fike, it must be shipped in an anti-static bag.

To install the DACT into the system enclosure:

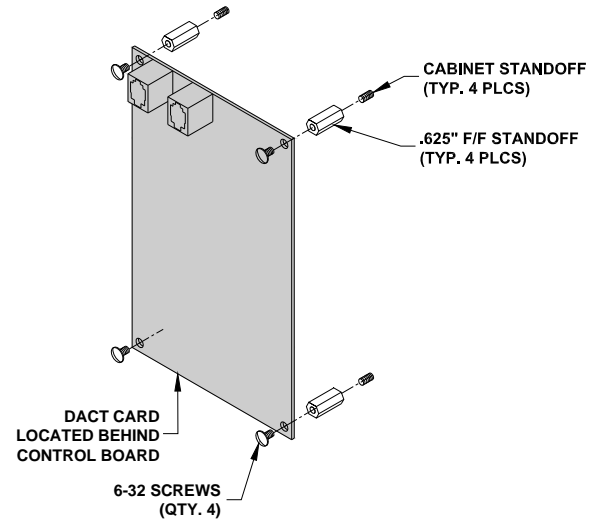
1. Carefully unpack the DACT and check for shipping damage.
2. CyberCat™ 254/1016 and Cheetah Xi™: Secure the four 2" F/F standoffs (P/N 02-11751) onto the threaded press studs on the back of the enclosure, as shown in Exhibit 5. The lower-right standoff must be installed through the mounting hole provided in the system control board.

Note: When installing the DACT into the CyberCat™ 254/1016 or Cheetah Xi™ system enclosures, it must be installed after installation of the system control board.

CyberCat™ 50 and Cheetah Xi™ 50: Secure the four .625" F/F standoffs (P/N 02-11833) onto the threaded press studs on the back of the enclosure, as shown in Exhibit 6.

Note: When installing the DACT into the CyberCat™ 50 or Cheetah Xi™ 50 system enclosures, it must be installed before installation of the system control board.

3. Install the DACT onto the standoffs and secure in place by threading the four 6-32 screws (P/N 02-1589) through the board and into the standoffs.



**Exhibit 6 DACT Mounting
(CyberCat™ 50 and Cheetah Xi™ 50)**

WIRING

The DACT is connected to the control system via an intelligent RS485 connection. It also requires 24VDC continuous power from the control system. Exhibits 7 and 8 show the required wiring connections for each compatible control system.

To electrically connect the DACT into the control system:

1. CyberCat™ 254/1016 and Cheetah Xi™: Install wiring to connect 24VDC continuous power from the system controller (terminal P7, Aux. Output, +/-) to the DACT, as shown in Exhibit 7.

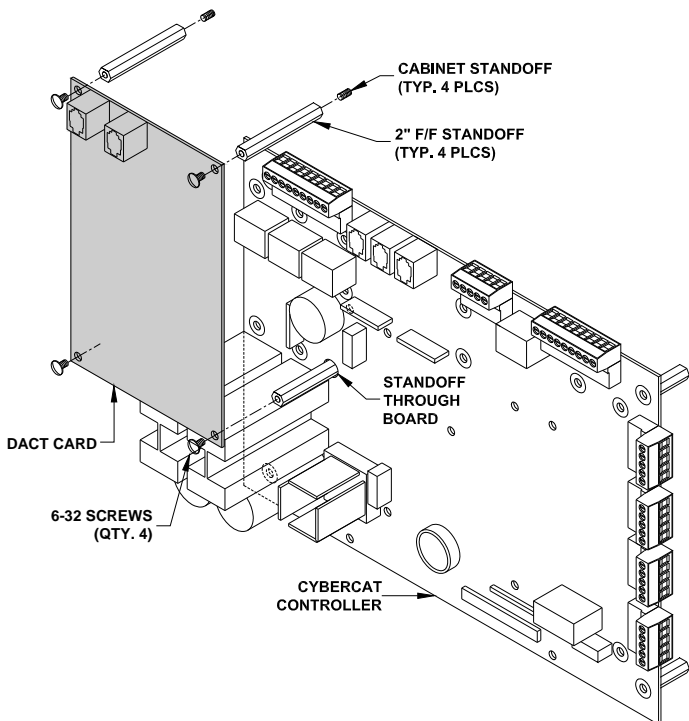
CyberCat™ 50 and Cheetah Xi™ 50: Install wiring to connect 24VDC continuous power from the system controller (terminal P6, Aux #1, +/-) to the DACT, as shown in Exhibit 8.

2. Apply 24VDC power to the DACT and program using the 10-2477 hand held programmer.
3. CyberCat™ 254/1016 and Cheetah Xi™: Install RS485 wiring from the system controller (terminal P6) to the DACT (- to A; + to B), as shown in Exhibit 7.

CyberCat™ 50 and Cheetah Xi™ 50: Install RS485 wiring from the system controller (terminal P6) to the DACT (- to A; + to B), as shown in Exhibit 8.

4. Connect incoming phone lines and test for proper operation.

Note: When the DACT module is installed, the incoming phone lines (power-limited) must be routed separately from any nonpower limited relay connections to the system controller.



**Exhibit 5 DACT Mounting
(CyberCat™ 254/1016 and Cheetah Xi™)**

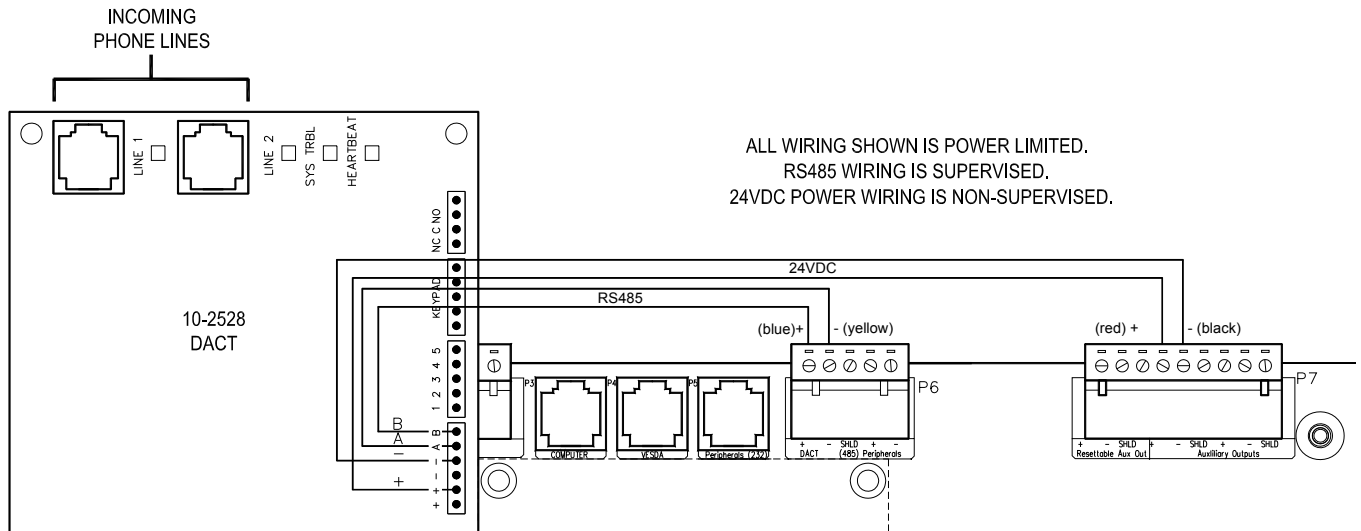


Exhibit 7 CyberCat™ 254/1016 & Cheetah Xi™ DACT Wiring

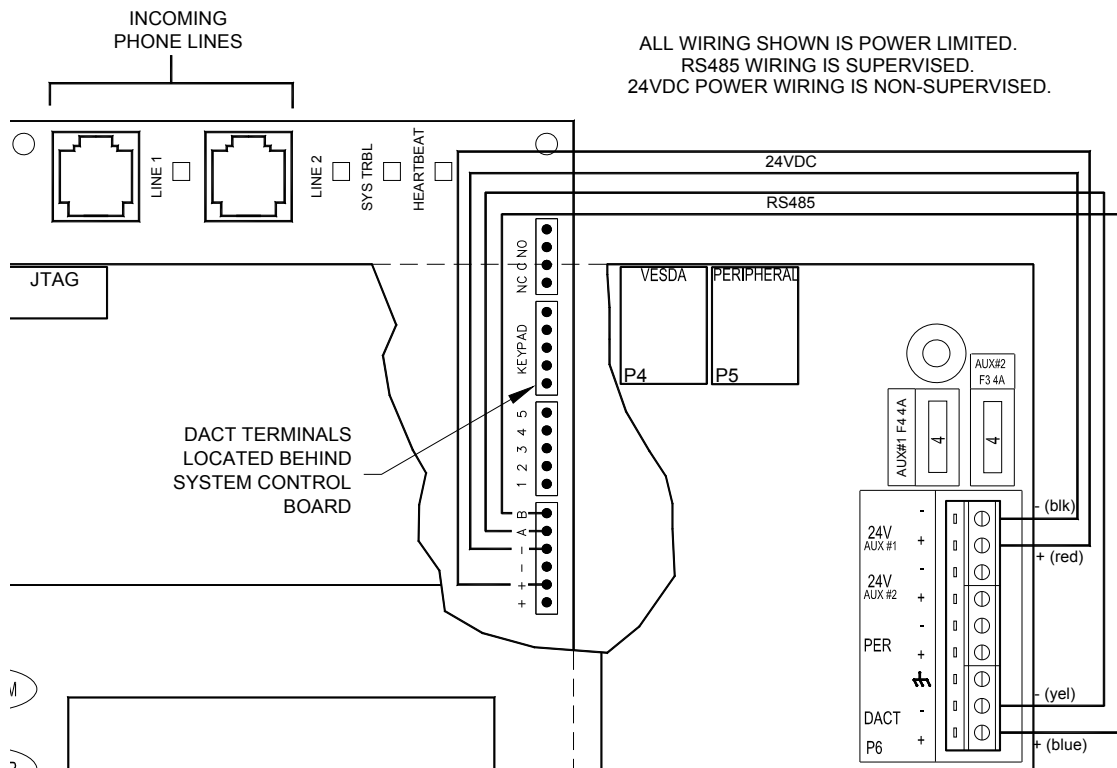


Exhibit 8 CyberCat™ 50 & Cheetah Xi™ 50 DACT Wiring

PROGRAMMING

When using the intelligent RS485 connection, the DACT must be added to the control panel's peripheral device list (address 2–32) and should be selected for supervision. This allows troubles with the DACT to be reported to the Fike control system as well as being transmitted to the receiving station on one of the phone lines.

The operational functions of the DACT itself must be programmed into the DACT using the 10-2477 (Bosch FMR-DACT-KEYPAD) hand held programmer, as shown in Exhibit 9.



Exhibit 9 DACT Programmer

Refer to Bosch document FPT-DACT “Operation and Installation Guide” for dialer specific options and programming instructions. The following options must be configured in the DACT for proper operation with Fike’s control systems:

- System Date and Time
- Account Numbers
- Phone Numbers
- Phone Control (reporting format)
- Report Steering (phone 2 as backup type)
- Supervision
 - Bus Address = 133 (do not change)
 - Supervise Bus = Yes (do not change)

Note: If using the DACTs optional programmable point inputs for communication to the receiving station, refer to Bosch document FPT-DACT “Operation & Installation Guide” for wiring and programming instructions.

Reserved for future use.