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Inform

Installation Guide

VEEDER-ROOT

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Inform Installation

Appendix A: Communicating with Non-TLS Gauges

Inform Installation

This manual contains guidelines for connecting the Inform host computer to the console and for installing Inform software. After installing the program, you must read the online Help file before you attempt to use Inform to collect data from a site.

Requirements for Consoles

Inform is compatible with the consoles shown in Table 1.

Table 1.- Console Software Compatibility

Console	Minimum Software Version
TLS2	1
TLS-300	8
TLS-350	8
TLS-350R	108, 309
ST 1400, 1401, 1401L, 1800, 1801, 1801L	12
RLM 5000/5001, 9000	0.92
Prolink	1.03b
Incon TS-504	2.109
Incon TS-1000	0.45

Requirements for the Inform PC

Table 2 shows the minimum requirements for your Inform PC.

Table 2.- Minimum PC Requirements

Item	Requirement
CPU	Pentium, 233 MHz
RAM	128 megabytes
Hard drive space	50 megabytes free (after Inform installation, 30 megabytes should remain free)
Operating system	Windows 95, 98, 2000, XP, or Windows NT 4.0
CD-ROM	
Remote connection	RS-232, modem, or network
Internet Browser	Internet Explorer 5.0 or later is required

Connecting the Inform PC to the TLS Console

You can connect the Inform host computer directly to a console and remotely via modem or TCP/IP.

DIRECT CONNECTION

A direct connect null-modem cable can be used between the Inform host computer and the console if the cable run is no longer than 50 feet (15.2 m). Cable runs longer than 50 feet can result in data errors, component damage, or both unless you install a short-haul modem at the PC and at the console.

The cable-end connectors you need for both local and remote connections are shown in Table 3 and the pin connections for the cable are shown in Table 4.

Table 3.- Equipment for Connecting a PC to a Console

Console Model	Direct-Connect		Remote-Connect		
	Connectors			Connectors	
	@PC	@Console	Modem Type	@Modem	@Console
TLS-300/ TLS-350 Series	Female DB-9 or DB-25	Male DB-25	External modem	Female DB-9 or DB-25	Male DB-25
			External modem with internal RS-232 Interface Module, or	Female DB-25	Male DB-25
			Console Internal SiteFax module	---	Phone & Line RJ-11 Jacks
TLS2		Male DB-9	External modem	Female DB-9 or DB-25	Male DB-9

Table 4.- Pin Connections for Null-modem Cable

Model	@Console		@PC	
	DB-25 on RS-232 Module Pin No. (Signal)	DB-9	DB-9 Pin No. (Signal)	DB-25 Pin No. (Signal)
TLS-300/TLS-350	2 (TX)	---	2 (RX)	3 (RX)
	3 (RX)	---	3 (TX)	2 (TX)
	7 (Signal ground)	---	5 (Signal ground)	7 (Signal ground)
TLS2	---	3 (TX)	2 (RX)	3 (RX)
	---	2 (RX)	3 (TX)	2 (TX)
	---	5 (Signal ground)	5 (Signal ground)	7 (Signal ground)

SHORT-HAUL MODEM CONNECTION

For cable runs over 50 feet, we recommend an asynchronous short-haul modem, Black Box model ME800A [see Figure 1]: or equivalent. You can contact Black Box at P.O. Box 12800, Pittsburgh, PA 15241 U.S.A.; telephone: (724) 746-5500; fax: (724) 746-0746; or at their Internet address *http://www.blackbox.com.*
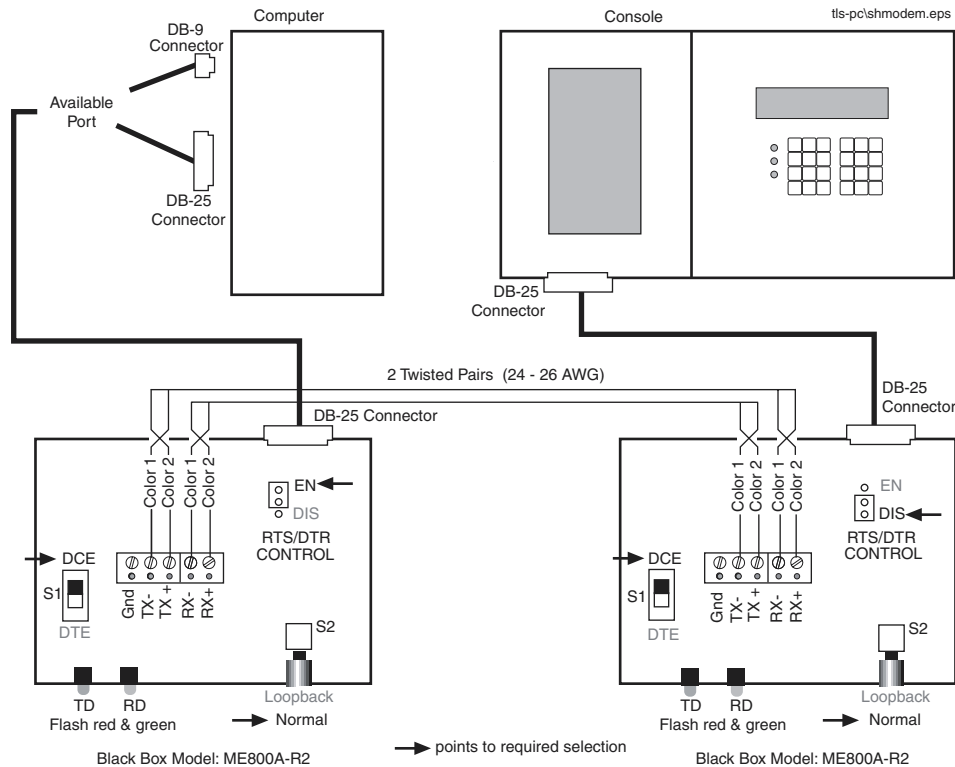

Figure 1.   Connecting a TLS Console to a PC Via Short-Haul Modems

TCP/IP CONNECTION

To connect to the TLS Console via TCP/IP, refer to the TCP/IP Interface Module Installation Guide (P/N 577013-776) for instructions.

Installing Inform Software

Before installing Inform, exit all programs that are running.

1. Copy the Form No. and Serial No. from the Inform CD label. You will need these numbers during the install process. If this is a new install, omit steps 2 and 3.

2. (Upgrade Only - Find the Inform folder on your hard drive. Open the Data subfolder and copy the existing inform.mdb file to your desktop. This step is necessary because the upgrade installation will erase the existing inform.mdb file in the Inform Folder).

3. (Upgrade Only - Uninstall the old version of Inform from your computer).

4. Put the Inform CD in your PC's CD Drive.

5. Click on the Setup.exe icon. The Install Shield Wizard will guide you through the installation. Note: on some versions of Inform the Choose Setup Language dialog box will appear during this step. If so, select the appropriate language and click OK.

6. Click on Yes to accept the license agreement. Click No and the install aborts.

7. Click Next to accept the destination path for the Inform program.

8. Click Next to accept the default files that will be installed (Windows Files, Data Files, Help Files, Report Files (English). Click on the Greek, Turkish, or Russian check boxes to also install Report Files for those languages.

9. Click Next to accept the default program folder name.

10. Click Next to accept the listed Inform files for installation, or click Back to go back and make a change.

11. The Install Wizard begins copying Informs files onto your hard drive. When this process is complete, the Register Inform dialog box appears. Enter the Form No. and Serial No. you recorded in Step 1 above. Click OK.

12. Install is complete for a new installation of Inform.

13. The Install Wizard complete dialog box appears. If prompted to do so, select the Yes radio button to restart the Inform host computer, and click the Finish button.

Converting an Old Inform Database

1. Click on the Start button and select Programs > Inform > Convert Old Inform Database.

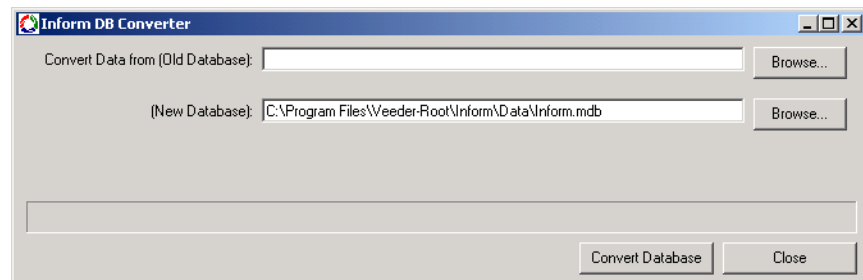2. The Inform Database Converter dialog box appears (see Figure 2).

<div align="right">**Figure 2. InformDB Converter dialog box**</div>

3. Click the browse button to the right of the **Convert Data from (Old Database)** window and search for the inform.mdb file (the inform.mdb file you copied to the desktop for Step 2 of Installing Inform Software - see above).

4. Click the browse button to the right of the **New Database** window and search for the inform.mdb file (in the Data subfolder of the Inform Folder). Click the **Convert Database** button.

Running Inform for the First Time

Click on the Inform icon on your desktop to open the program. The Site Selection Screen will appear. Click on the Help button on the Site Selection screen to open the Help file. *** YOU MUST READ THE ONLINE HELP FILE TO USE INFORM! ***

Appendix A: Communicating with Non-TLS Gauges

This appendix contains communications information for the following gauges:

- RLM 5000/5001 and RLM 9000
- ST1400, 1401, 1401L, 1800, 1801, and 1801L
- Prolink
- Incon

RLM 5000/5001 Gauges

Two connectors labeled Port 1 and Port 2 are provided on the left side of the gauge for RS-232 interface.

1. Port 1 is provided for local connection to other RS-232C compatible devices. Equipment connected to either RS-232C port should have an RS-232C communication protocol, be UL listed, and should not be installed in or over a hazardous location. Port 1 pin outs are shown in Table 1:

Table 1.- RLM 5000/5001 Port 1 Pin Outs

Term. No.	Function	Input/Output
1	Chas. GND	
2	TXD	I
3	RXD	O
6	DSR	O
7	Dig. GND	
20	DTR	I

2. Port 2 is provided to connect the monitor to a locally obtained AT Command Set compatible modem for autodialing operation. Connection to this port requires a six (6) conductor communication cable (locally obtained). Port 2 pin outs are shown in Table 2:

Table 2.- RLM 5000/5001 Port 2 Pin Outs

Term. No.	Function	Input/Output
1	Chas. GND	
2	TXD	O
3	RXD	I
7	Dig. GND	
8	DCD	I
20	DTR	O

RLM 9000 Gauge

One connector is provided on the left side of the gauge for RS-232 interface. Pin outs are shown in Table 3:

Table 3.- RLM 9000 Pin Outs

7 pin J-9 MPU Board	25-Pin D Connector, Female, DTE		
	Term. No.	**Function**	**Input/Output**
GRN	2	TXD	O
RED	3	RXD	I
BLK	7	CKT Common	
BROWN	8	DCD	I
WHITE	20	DTR	O

ST Series Gauges

Communications to ST1400, 1401, 1401L, 1800, 1801, 1801L gauges require the Red Jacket ST Interface to PC cable (P/N RE350-119-5).

Prolink Gauges

RS-232 CONNECTIONS

External RS232 equipment used to collect data from the Prolink network via the BASICom network card, such as POS or station back office PCs are referred to "polling devices". The polling device will be connected to the DB9 male serial port on the bottom of the Prolink chassis. The BASICom network card RS232 port is shipped from the factory configured for DTE. All connections discussed in this manual assume that the BASICom network card remains configured for DTE. Table 4 below shows the DTE/DCE connector pinouts:

Table 4.- Prolink DTE/DCE Pin Outs

Pin #	DTE	Input/Output	Pin #	DCE	Input/Output
1	DCD	I	1	DCD	O
2	RXD	I	2	TXD	O
3	TXD	O	3	RXD	I
4	DTR	O	4	DTR	I
5	Sig GND		5	Sig GND	
6	DSR	I	6	DSR	O
7	RTS	O	7	RTS	I
8	CTS	I	8	CTS	O
9	RI	I	9	RI	O

BASICom currently uses pins 2, 3, 4, and 5. No 'loop-back' connections are necessary for BASICom to operate. Therefore only three pins (2, 3, 5) need to be connected (three wire interface) to the polling device. Additional pins may be connected but are ignored by BASICom.

In most cases standard off-the-shelf 'null modem' cabling can be used to connect the BASICom network card to the polling device. Many polling device manufacturers offer cables and connectors ready made to connect to a tank monitor which can be used. The tank monitor end of the cabling may be a DB25 male connector. If so, a DB25 female to DB9 female adapter will be necessary to connect to the BASICom network card.

Make sure that the adapter has screws or thumbscrews at the DB9 side so that a secure connection is assured.

In situations where cables and connectors are made up on site, use the connection scheme shown in Table 5:

Table 5.- Prolink Pin Outs for Site Fabricated Cables/Connectors

BASICom Network Card		Polling Device
TXD (pin 3)	>	RXD
RXD (pin 2)	<	TXD
SG (pin 5)	< >	SG
DTR (pin 4) - optional	>	DSR or loop-back connection

Incon Gauges

Incon gauge communication connections depend upon the model installed. Please refer to Incon documentation for appropriate cable requirements.

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Installation de Inform

Annexe A: Communication avec des jauges non TLS

Installation de Inform

Ce manuel contient des directives pour la connexion de l'ordinateur hôte de Inform à la console et l'installation du logiciel Inform. Une fois le programme installé, veuillez parcourir le fichier d'aide en ligne avant de tenter d'utiliser Inform pour la collecte de données au départ d'un site.

Spécifications pour les consoles

Inform est compatible avec les consoles reprises dans le Tableau 1.

Tableau 1.- Compatibilité du logiciel de la console

Console	Version logicielle minimale
TLS2	1
TLS-300	8
TLS-350	8
TLS-350R	108, 309
ST 1400, 1401, 1401L, 1800, 1801, 1801L	12
RLM 5000/5001, 9000	0.92
Prolink	1.03b
Incon TS-504	2.109
Incon TS-1000	0.45

Spécifications pour le PC Inform

Le Tableau 2 indique les spécifications minimales pour votre PC Inform.

Tableau 2.- Spécifications minimales du PC

Elément	Spécifications requises
Unité centrale	Pentium, 233 MHz
RAM	128 Mo
Espace disque dur	50 Mo libres (après installation de Inform, 30 Mo devraient rester libres)
Système d'exploitation	Windows 95, 98, 2000, XP, ou Windows NT 4.0
CD-ROM	
Connexion à distance	RS-232, modem, ou réseau
Navigateur Web	La version 5.0 ou supérieure du navigateur Internet Explorer est nécessaire

Connexion du PC Inform à la console TLS

L'ordinateur hôte Inform peut être connecté directement à une console, ou à distance via un modem ou TCP/IP.

CONNEXION DIRECTE

Un câble null-modem de connexion directe peut être utilisé entre l'ordinateur hôte Inform et la console, pour autant que la longueur de câble ne dépasse pas 50 pieds (15,2 m). Un câble de longueur supérieure peut entraîner des erreurs de données, des dommages aux composants ou les deux, à moins d'installer un modem courte distance au PC et à la console.

Le Tableau 3 indique les connecteurs de fin de câble requis pour les connexions locale et distante et le Tableau 4 montre les connexions de broches pour le câble.

Tableau 3.- Equipement pour la connexion d'un PC à une console

Connexion directe			Connexion à distance		
	Connecteurs			Connecteurs	
Modèle de console	Au PC	A la console	Type de modem	Au modem	A la console
Série TLS-300/ TLS-350	DB-9 ou DB-25 femelle	DB-25 mâle	Modem externe	DB-9 ou DB-25 femelle	DB-25 mâle
			Modem externe avec module d'interface RS-232 interne, ou	DB-25 femelle	DB-25 mâle
			Module SiteFax interne à la console	---	Prises casque & ligne RJ-11
TLS2		DB-9 mâle	Modem externe	DB-9 ou DB-25 femelle	DB-9 mâle

Tableau 4.- Connexions de broches pour câble null-modem

	A la console		Au PC	
Modèle	DB-25 sur module RS-232 Broche n° (signal)	DB-9	DB-9 Broche n° (signal)	DB-25 Broche n° (signal)
TLS-300/TLS-350	2 (TX)	---	2 (RX)	3 (RX)
	3 (RX)	---	3 (TX)	2 (TX)
	7 (signal terre)	---	5 (signal terre)	7 (signal terre)
TLS2	---	3 (TX)	2 (RX)	3 (RX)
	---	2 (RX)	3 (TX)	2 (TX)
	---	5 (signal terre)	5 (signal terre)	7 (signal terre)

CONNEXION DU MODEM COURTE DISTANCE

Pour les longueurs de câble de plus de 50 pieds (15,2 m), nous recommandons un modem courte distance asynchrone Black Box modèle ME800A [voir Figure 1] : ou équivalent. Vous pouvez contacter Black Box à l'adresse P.O. Box 12800, Pittsburgh, PA 15241 Etats-Unis ; téléphone : (724) 746-5500 ; fax : (724) 746-0746 ; ou via leur adresse Internet *http://www.blackbox.com.*
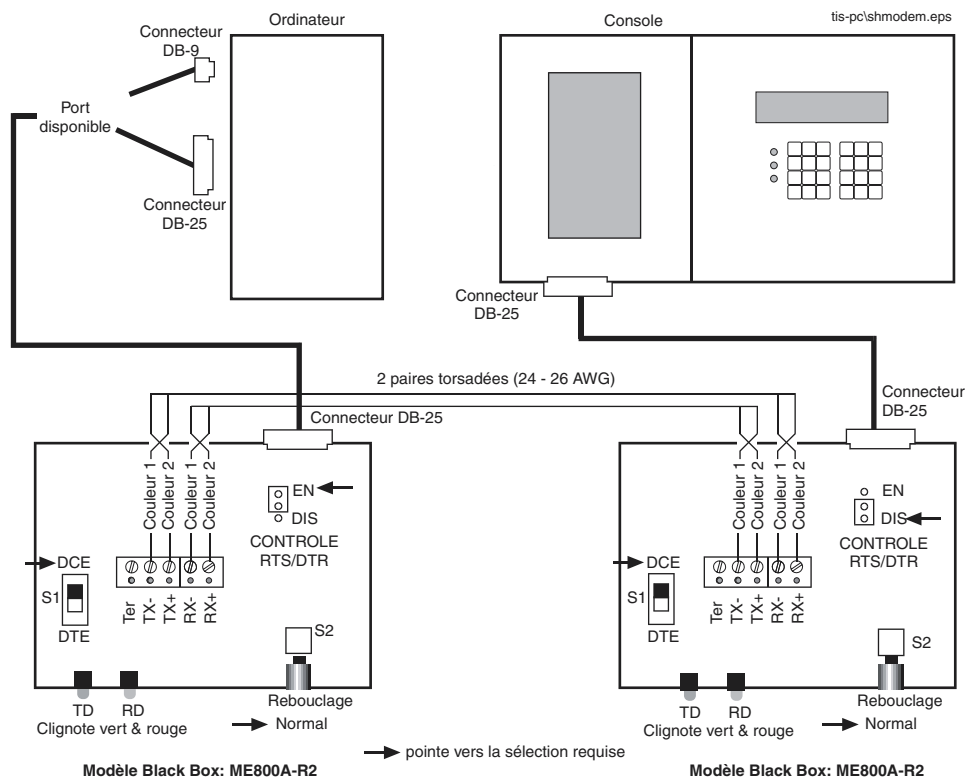

Figure 1.   Connexion de la console TLS à un PC via des modems courte distance

CONNEXION TCP/IP

Pour connecter la console TLS via TCP/IP, consultez le guide d'installation du module d'interface TCP/IP (N/P 577013-776) pour instructions.

Installation du logiciel Inform

Avant d'installer Inform, quittez tous les programmes en cours.

1. Prenez note du n° de formulaire et du n° de série figurant sur l'étiquette du CD Inform. Vous aurez besoin de ces numéros durant la procédure d'installation. S'il s'agit d'une nouvelle installation, passez directement à l'étape 4.

2. (Mise à niveau uniquement - Repérez le dossier Inform sur votre disque dur. Ouvrez le sous-dossier Data (Données) et copiez le fichier inform.mdb qui s'y trouve sur votre bureau. Cette opération est nécessaire car l'installation de la mise à niveau supprimera le fichier inform.mdb existant dans le dossier Inform).

3. (Mise à niveau uniquement - Désinstallez l'ancienne version de Inform sur votre ordinateur).

4. Insérez le CD Inform dans le lecteur de CD de votre PC.

5. Cliquez sur l'icône Setup.exe. L'assistant d'installation vous guidera à travers la procédure d'installation. Remarque : avec certaines versions de Inform, la boîte de dialogue Choose Setup Language (Choisir la langue d'installation) apparaît au cours de cette phase. Si c'est le cas, sélectionnez la langue appropriée et cliquez sur OK.

6. Cliquez sur Yes (Oui) pour accepter l'accord de licence. Si vous cliquez sur No (Non), l'installation est annulée.

7. Cliquez sur Next (Suivant) pour accepter le chemin de destination pour le programme Inform.

8. Cliquez sur Next (Suivant) pour accepter les fichiers qui seront installés par défaut (fichiers Windows, fichiers de données, fichiers d'aide, fichiers rapport (anglais). Cliquez sur les cases à cocher Greek (Grec), Turkish (Turc), ou Russian (Russe) pour installer également les fichiers rapport dans ces langues.

9. Cliquez sur Next (Suivant) pour accepter le nom par défaut pour le dossier du programme.

10. Cliquez sur Next (Suivant) pour accepter la liste des fichiers Inform à installer, ou cliquez sur Back (Retour) pour retourner en arrière et effectuer un changement.

11. L'Assistant d'installation commence à copier les fichiers Inform sur votre disque dur. Une fois cette opération terminée, la boîte de dialogue Register Inform (Enregistrer Inform) apparaît. Entrez le n° du formulaire et le n° de série que vous aviez noté à l'étape 1 plus haut. Cliquez sur OK.

12. La procédure de nouvelle installation de Inform est à présent terminée.

13. La boîte de dialogue de fin de l'Assistant d'installation apparaît. Si le système vous invite à redémarrer l'ordinateur hôte Inform, sélectionnez la case d'option Yes (Oui), et cliquez sur le bouton Finish (Terminer).

Conversion d'une ancienne base de données Inform

1. Cliquez sur le bouton Démarrer et sélectionnez les Programmes > Inform > Convert Old Inform Database (Convertir ancienne base de données Inform).

2. La boîte de dialogue Inform Database Converter (Convertisseur de base de données Inform) apparaît (voir Figure 2).
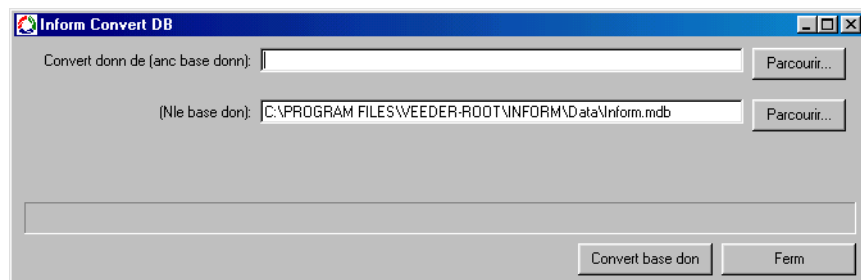

Figure 2.   Boîte de dialogue InformDB Converter (Convertisseur InformDB)

3. Cliquez sur le bouton de navigation à droite de la fenêtre **Convert Data from (Old Database)** (Convertir données depuis (ancienne base de données)) et cherchez le fichier inform.mdb (celui que vous avez copié sur votre bureau à l'étape 2 de l'installation du logiciel Inform - voir plus haut).

4. Cliquez sur le bouton de navigation à droite de la fenêtre **New Database** (Nouvelle base de données) et cherchez le fichier inform.mdb (dans le sous-dossier Data (Données) du dossier Inform). Cliquez sur le bouton **Convert Database** (Convertir base de données).

Exécuter Inform pour la première fois

Cliquez sur l'icône Inform sur votre bureau pour ouvrir le programme. L'écran Site Selection (Sélection du site) apparaît. Cliquez sur le bouton Help (Aide) de l'écran Site Selection (Sélection du site) pour ouvrir le fichier d'aide. *** IL EST IMPERATIF DE LIRE LE FICHIER D'AIDE EN LIGNE AVANT D'UTILISER INFORM ! ***

Annexe A: Communication avec des jauges non TLS

Cette annexe contient des informations de communication pour les jauges suivantes :

- RLM 5000/5001 et RLM 9000
- ST 1400, 1401, 1401L, 1800, 1801 et 1801L
- Prolink
- Incon

Jauges RLM 5000/5001

Deux connecteurs marqués port 1 et port 2 sont fournis du côté gauche de la jauge pour l'interface RS-232.

1. Le port 1 est fourni pour la connexion locale avec les autres périphériques compatibles avec RS-232C. Tout équipement connecté à l'un des deux ports RS-232C doit posséder un protocole de communication RS-232C, porté la marque UL, et ne doit en aucun cas être installé dans ou sur un endroit dangereux. La disposition des broches du port 1 est indiquée dans le Tableau 1 :

Tableau 1.- Disposition des broches RLM 5000/5001 du port 1

Borne n°	Fonction	Entrée/sortie
1	TERRE chas.	---
2	TXD	E
3	RXD	S
6	DSR	S
7	TERRE num.	---
20	DTR	E

2. Le port 2 est fourni pour connecter le moniteur à un modem compatible avec la commande-AT obtenue localement pour les opérations de numérotation automatique. Toute connexion à ce port requiert un câble de communication à six (6) conducteurs (obtenu localement). La disposition des broches du port 2 est indiquée dans le Tableau 2 :

Tableau 2.- Disposition des broches RLM 5000/5001 du port 2

Borne n°	Fonction	Entrée/sortie
1	TERRE chas.	
2	TXD	S
3	RXD	E
7	TERRE num.	---
8	DCD	E
20	DTR	S

Jauge RLM 9000

Un connecteur est fourni du côté gauche de la jauge pour l'interface RS-232. La disposition des broches est indiquée dans le Tableau 3 :

Tableau 3.- Disposition des broches RLM 9000

Carte de l'unité centrale à microproces-seur J9 à 7 broches	Connecteur D à 25 broches, femelle, DTE		
	Borne n°	Fonction	Entrée/sortie
VERT	2	TXD	S
RGE	3	RXD	E
NOIR	7	CKT courant	---
MRN	8	DCD	E
BLC	20	DTR	S

Jauges série ST

Toute communication avec les jauges ST1400, 1401, 1401L, 1800, 1801 et 1801L requiert l'interface ST Red Jacket sur le câble du PC (N/P RE350-119-5).

Jauges Prolink

CONNEXIONS RS-232

L'équipement externe RS232 utilisé pour collecter les données du réseau Prolink via la carte réseau BASICom, tel que les PC POS ou de station d'arrière-guichet sont appelés "périphériques interrogés". Les périphériques interrogés seront connectés au port série DB9 mâle en bas du châssis Prolink. Le port RS232 de la carte réseau BASICom envoyé par l'usine possède la configuration DTE. Toutes les connexions mentionnées dans ce manuel suppose que la carte réseau BASICom conserve sa configuration DTE. Le Tableau 4 ci-dessous indique la distribution des broches du connecteur DTE/DCE :

Tableau 4.- Disposition des broches DTE/DCE Prolink

Broche n°	DTE	Entrée/sortie	Broche n°	DCE	Entrée/sortie
1	DCD	E	1	DCD	S
2	RXD	E	2	TXD	S
3	TXD	S	3	RXD	E
4	DTR	S	4	DTR	E
5	Signal TERRE	---	5	Signal TERRE	---

Tableau 4.- Disposition des broches DTE/DCE Prolink

Broche n°	DTE	Entrée/sortie	Broche n°	DCE	Entrée/sortie
6	DSR	E	6	DSR	S
7	RTS	S	7	RTS	E
8	CTS	E	8	CTS	S
9	RI	E	9	RI	S

BASICom utilise actuellement les broches 2, 3, 4 et 5. L'utilisation de BASICom ne requiert aucune connexion de "rebouclage". De plus, seules trois broches (2, 3, 5) doivent être connectées (interface à trois fils) au périphérique interrogé. D'autres broches peuvent être connectées mais sont ignorées par BASICom.

Dans la plupart des cas, le câblage null-modem standard peut être utilisé pour connecter la carte réseau BASICom au périphérique interrogé. De nombreux fabricants de périphérique interrogé offrent les câbles et connecteurs prêts à être connectés à un moniteur de réservoir pouvant être utilisé. Le côté moniteur du réservoir du câblage peut être un connecteur DB25 mâle. Si c'est le cas, un adaptateur femelle DB25 à DB9 est nécessaire pour se connecter à la carte réseau BASICom.

Vérifiez que l'adaptateur possède des vis ou des vis à serrage à main du côté DB9 de façon à garantir la sécurité de la connexion.

Au cas où les câbles et connecteurs seraient fabriqués sur le site, utilisez le schéma de connexion indiqué dans le Tableau 5 :

Tableau 5.- Distribution des broches Prolink pour les câbles/connecteurs fabriqués sur le site

Carte réseau BASICom		Périphérique interrogé
TXD (broche 3)	>	RXD
RXD (broche 2)	<	TXD
SG (broche 5)	< >	SG
DTR (broche 4) - en option	>	DSR ou connexion de rebouclage

Jauges Incon

Les connexions de communication des jauges Incon dépendent du modèle installé. Veuillez consulter la documentation Incon pour les spécifications appropriées de câble.

Inform

VEEDER-ROOT

Instalação do Inform

Anexo A: Comunicação com os Dispositivos Não-TLS

Instalação do Inform

Este manual contém diretrizes para conectar o computador anfitrião Inform ao console e para instalar o Software Inform. Depois de instalar o programa, você deve ler o arquivo OnLine Help antes de tentar coletar dados de um local.

Requisitos para Consoles

O Inform é compatível com os consoles indicados na Tabela 1.

Tabela 1. Compatibilidade Console / software

Console	Versão Mínima de Software
TLS2	1
TLS-300	8
TLS-350	8
TLS-350R	108, 309
ST 1400, 1401, 1401L, 1800, 1801, 1801L	12
RLM 5000/5001, 9000	0,92
Prolink	1.03b
Incon TS-504	2.109
Incon TS-1000	0.45

Requisitos para o Inform PC

A Tabela 2 mostra os requisitos mínimos para seu PC Inform.

Tabela 2. Requisitos mínimos de PC para o Inform

Item	Requisito
CPU	Pentium, 233 MHz
RAM	128 MB
Espaço em disco rígido	50 megabytes livres (após a instalação do Inform, 30 megabytes devem permanecer livres)
Sistema operacional	Windows 95, 98, 2000, XP, ou Windows NT 4.0
CD-ROM	

Tabela 2. Requisitos mínimos de PC para o Inform (Continuação)

Item	Requisito
Conexão remota	RS-232, modem, ou rede
Navegador InternetI	Internet Explorer 5.0 ou mais recente é necessário

Conexão do PC Inform ao Console TLS

Você pode conectar o computador anfitrião do Inform a um console e remotamente via modem ou TCP/IP.

CONEXÃO DIRETA

Um cabo de conexão direta com modem nulo pode ser usado entre o computador anfitrião Inform e o console se o comprimento do cabo não for superior a 15 metros. O uso de cabos com comprimento de mais de 15 metros pode resultar em erros de dados, danos de componentes ou ambos a menos que você instale um modem de curto alcance no PC e no console.

Os conectores de extremidade do cabo que você precisa para conexões locais e remotas são indicados na Tabela 3 e a conexão de pinos para o cabo são indicadas na Tabela 3.

Tabela 3. Equipamento para Conectar um PC a um Console

Conexão Direta			Conexão Remota		
Modelo de Console	Conectores		Tipo de Modem	Conectores	
	@PC	@Console		@Modem	@Console
Série TLS-300/TLS-350	DB-9 ou DB-25 Fêmea	DB-25 Macho	Modem externo	DB-9 ou DB-25 fêmea	DB-25 Macho
			Modem externo com Módulo de Interface RS-232 interno	DB-25 Fêmea	DB-25 Macho
			Módulo Sitefax interno no console	---	Conectores RJ-11 para Telefones e Linha
TLS2		DB-9 Macho	Modem externo	DB-9 ou DB-25 fêmea	DB-9 Macho

Tabela 4. Conexões de Pinos para cabo Modem Nulo

	@Console		@PC	
Modelo	**DB-25 em módulo RS-232 - Pino n°. (Sinal)**	**DB-9**	**DB-9 - Pino n°. (Sinal)**	**DB-25 - Pino n°. (Sinal)**
TLS-300/TLS-350	2 (TX)	---	2 (RX)	3 (RX)
	3 (RX)	---	3 (TX)	2 (TX)
	7 (Sinal terra)	---	5 (Sinal terra)	7 (Sinal terra)
TLS2)	**---**	3 (TX)	2 (RX)	3 (RX)
	---	2 (RX)	3 (TX)	2 (TX)
	---	5 (Sinal terra)	5 (Sinal terra)	7 (Sinal terra)

CONEXÃO DE MODEM DE CURTO ALCANCE

Para comprimentos de cabos superiores a 15 metros, recomendamos o uso de um modem de curto alcance, Blackbox modelo ME800A (Vide figura na página 3) ou equivalente. Você pode contactar a Blackbox, POBox 12880, Pittsburgh, PA 15241 U.S.A.: telefone (724) 746-5500; fax (724) 746-0746; ou seu endereço na internet http://www.blackbox.com.
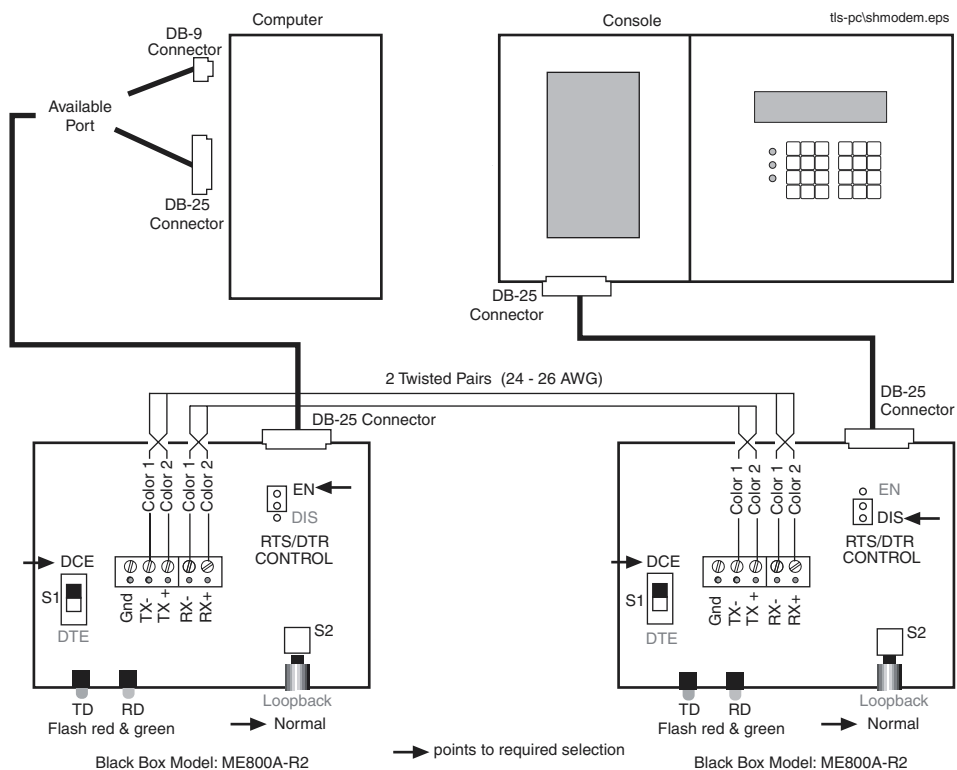
Figura 1. Conectando um Console TLS a um PC Através de Modens Short-Haul

CONEXÃO TCP/IP

Para conectar o console TLS via TCP/IP refira-se ao Guia de Instalação de Módulo de Interface TCP/IP (P/N 577013-776) para instruções.

Instalação do Software Inform

Antes de instalar o Inform, saia de todos os programas que estão rodando.

1. Copie o no. de formulário e no. de série da etiqueta do CD Inform. Você irá precisar destes números durante o processo de instalação. Se esta for uma instalação nova, omita os passos 2 e 3.

2. Somente Upgrade - Encontre a pasta Inform no seu disco rígido. Abra a sub-pasta Data [dados] e copie o arquivo existente inform.mdb no seu computador. Este passo é necessário porque a instalação do Upgrade irá apagar o arquivo existente inform.mdb na pasta Inform.

3. Somente Upgrade - Desinstale a versão antiga do Inform de seu computador).

4. Coloque o CD Inform no driver de CD do seu PC.

5. Clique sobre o ícone Setup.exe. O Install Shield Wizard irá guiá-lo durante a instalação. Nota: em algumas versões do Inform a caixa de diálogo Choose Setup Language (Escolha a linguagem de configuração) aparecerá durante este passo. Se for o caso, selecione a linguagem apropriada e clique OK.

6. Clique em Yes (sim) para aceitar o contrato de Licença. Se clicar No (não) a instalação será abortada.

7. Clique Next (próximo) para aceitar o caminho de destino para o programa Inform.

8. Clique Next (próximo) para aceitar os arquivos de fábrica que serão instalados (arquivos Windows, Arquivos de Dados, Arquivos Ajuda, Arquivos de Relatórios - em Inglês). Clique nos quadrinhos Greek, Turkish, ou Russian etc. para também instalar os arquivos de relatórios para estas línguas.

9. Clique Next (próximo) para aceitar o nome da pasta de programa de fábrica.

10. Clique Next (próximo) para aceitar os arquivos indicados para instalação ou clique Back (retornar) para retornar e fazer uma mudança.

11. O Install Wizard começa a copiar os arquivos Inform em seu disco rígido. Quando este processo for completado, a caixa de diálogo Register Inform (registrar Inform) aparecerá. Entre o no. de formulário e o no. de série que você anotou no passo 1 acima. Clique OK.

12. A instalação está completa para uma nova instalação do Inform.

13. A caixa de diálogo completa Install Wizard aparece. Se solicitado a fazê-lo, selecione o botão Yes (sim) para reinicializar o computador anfitrião Inform e clique o botão Finish (terminado).

Conversão de um Antigo Banco de Dados Inform

1. Clique no botão Start (iniciar) e selecione Programas - Inform - Converter banco de dados - Inform antigo.

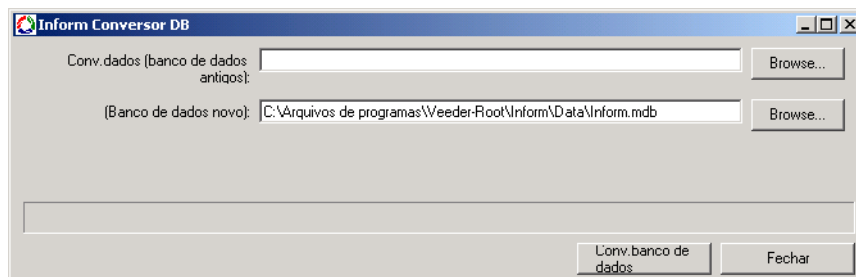2. A caixa de diálogo de Conversor de Banco de Dados Inform aparece (vide figura 2).

Figura 2.   A caixa de diálogo de Conversor de Banco de Dados Inform

3. Clique no botão do navegador à direita da janela Converter Dado do Banco de Dados (Antigo) e busque pelo arquivo inform.mdb (o arquivo inform.mdb que você copiou no PC para o passo 2 de Instalação do Software Inform - vide acima).

4. Clique no botão do navegador para a direita da janela New Database (Novo Banco de Dados) e busque pelo arquivo inform.mdb (na sub-pasta de Dados da pasta Inform). Clique no botão Convert Database (Converter Banco de Dados).

Para Rodar o Inform pela Primeira Vez

Clique no Ícone Inform em seu PC para abrir o programa. A Tela de Seleção do Local irá aparecer. Clique no botão Help (ajuda) na Tela Seleção de Local para abrir o arquivo Help (Ajuda). *** VOCÊ DEVE LER O ARQUIVO ONLINE HELP PARA USAR O INFORM). ***

Anexo A: Comunicação com os Dispositivos Não-TLS

Este anexo contém informações de comunicação para os seguintes dispositivos:

• RLM 5000/5001 e RLM 9000

• ST1400, 1401, 1401L, 1800, 1801, e 1801L

• Prolink

• Incon

Dispositivos RLM 5000/5000L

Dois conectores identificados Porta 1 e Porta 2 são providos no lado esquerdo do dispositivo para a interface RS-232.

1. A Porta 1 está provida para conexão local a outros dispositivos compatíveis RS-232. Os equipamentos conectados a qualquer das portas RS-232C devem ter um protocolo de conexão RS-232C, ser certificado UL e não estar instalado sobre ou em locais perigosos. As pinagens da porta 1 são indicadas na Tabela 1.

Tabela 1. Pinagens da Porta 1 RLM 5000/5001

Terminal N°.	Função	Entrada/Saída
1	Terra do Chassi	
2	TXD	I
3	RXD	O
6	DSR	O
7	Terra Digital	
20	DTR	I

2. A Porta 2 está provida para conectar o monitor a um modem compatível AT Command Set obtido localmente para a operação de auto-discagem. A conexão a esta porta requer um cabo de comunicação de 6 (seis) condutores (localmente obtidos). As pinagens da porta 2 são indicadas na Tabela 2.

Tabela 2. Pinagens da Porta 2 RLM 5000/5001

Terminal N°.	Função	Entrada/Saída
1	Terra do Chassi	
2	TXD	O
3	RXD	I
7	Terra Digital	

Tabela 2. Pinagens da Porta 2 RLM 5000/5001

Terminal N°.	Função	Entrada/Saída
8	DCR	I
20	DTR	O

Dispositivo RLM 9000

Um conector é provido do lado esquerdo do dispositivo para interface RS-232. As pinagens são indicadas na tabela 3.

Tabela 3. Pinagens RLM 5000

Placa MPU J-9 7 pinos	Conector D - 25 pinos, Fêmea, DTE		
	Terminal N°.	Função	Entrada/Saída
VERDE	2	TXD	O
VERMELHO	3	XD	I
PRETO	7	CKT Comum	
MARROM	8	DCD	I
BRANCO	20	DTR	O

Dispositivos da Série ST

As comunicações com os dispositivos ST1400, 1401, 1401L, 1800, 1801, 1801L requerem a Interface ST Red Jacket ao cabo do PC (P/N RE350-119-5).

Dispositivos Prolink

CONEXÕES RS-232

Equipamentos externos RS-232 usados para coletar dados da rede Prolink através do cartão da rede BASICom, como por exemplo PDVs ou PCs de postos, são chamados dispositivos de coleta. O dispositivo de coleta será conectado à porta serial DB9 macho na parte inferior do chassi Prolink. O cartão de rede BASICom RS-232 é despachado da fábrica configurado para DTE. Todas as conexões discutidas neste manual assumem que o cartão de rede BASICom permaneça configurado para DTE. A tabela 4 abaixo mostra as pinagens dos conectores DTE/DCE.

Tabela 4. Pinagens DTE/DCE Prolink

Pino N°.	DTE	Entrada/Saída	Pino N°.	DCD	Entrada/Saída
1	DCD	I	1	DCD	O
2	RXD	I	2	TXD	O

Tabela 4. Pinagens DTE/DCE Prolink

Pino N°.	DTE	Entrada/Saída	Pino N°.	DCD	Entrada/Saída
3	TXD	O	3	RXD	I
4	DTR	O	4	DTR	I
5	Terra de Sinal		5	Terra de Sinal	
6	DSR	I	6	DSR	O
7	RTS	O	7	RTS	I
8	CTS	I	8	CTS	O
9	RI	I	9	RI	O

O BASICom utiliza atualmente os pinos 2, 3, 4 e 5. Nenhuma conexão de não-retorno de circuito é necessária para operar o BASICom. Portanto somente três pinos (2, 3, 5) precisam ser conectados (interface de três fios) ao dispositivo de coleta. Pinos adicionais podem ser conectados mas são ignorados pelo BASICom.

Na maioria dos casos, cabos com modem nulo comerciais podem ser usados para conectar o cartão de rede BASICom para um dispositivo de coleta. Muitos fabricantes de dispositivos de coleta oferecem cabos e conectores prontos para ser conectados a um monitor de tanques que pode ser usado. A extremidade do monitor de tanques do cabo pode ser um conector DB25 macho. Neste caso, um adaptador DB25 (fêmea) / DB9 (fêmea) será necessário para conectar o cartão de rede BASICom.

Certifique-se de que o adaptador possui parafusos ou parafusos polegares no lado DB9 de modo a assegurar uma conexão segura. Em situações onde cabos e conectores são montados no local, use o esquema de conexão indicado na Tabela 5.

Tabela 5. Pinagens Prolink para Cabos/Conectores Fabricados no Local

Cartão de Rede BASICom		Dispositivo de Coleta
TXD (pino 3)	>	RXD
RXD (pino 2)	<	TXD
SG (pino 5)	< >	SG
DTR (pino 4) opcional	>	DSR ou conexão de circuito de retorno

Dispositivos Incon

As conexões de comunicação Incon dependem do modelo instalado. Favor referir-se à documentação Incon para requisitos para cabos apropriados.

Inform

VEEDER-ROOT

Instalación del Inform

Apéndice A: Para comunicarse con medidores que no son TLS

Instalación del Inform

Este manual contiene las instrucciones para la conexión e instalación del software del Inform de la computadora host para la consola. Después de la instalación, debe leer el archivo de Ayuda on line antes de intentar utilizar el Inform para la recopilación de datos de un lugar.

Requisitos para consolas

Inform es compatible con las consolas de la Tabla 1.

Tabla 1.   Compatibilidad de Software de la Consola

Consola	Versión mínima del software
TLS-2	1
TLS-300	8
TLS-350	8
TLS-350R	108, 309
ST 1400, 1401, 1401L, 1800, 1801, 1801L	12
RLM 5000/5001, 9000	0.92
Prolink	1.03b
Incon TS-504	2.109
Incon TS-1000	0.45

Requisitos para la PC Inform

La Tabla 2 muestra los requisitos mínimos de la PC Inform.

Tabla 2. Requisitos mínimos de PC

Ítem	Requisito
CPU	Pentium, 233 MHz
RAM	128 megabytes
Espacio libre en disco rigido	50 megabytes (despues de la instalacion de Inform, quedaran 30 megabytes libres)
Sistema Operativo	Windows 95, 98, 2000, XP, o Windows NT 4.0
CD-ROM	
Conexión remota	RS-232, módem, o red
Internet Browser	Internet Explorer 5.0 o version posterior

Para conectar la PC Inform a la Consola TLS

Puede conectarse la computadora host Inform en forma directa a una consola, y en forma remota vía módem o TCP/IP.

CONEXIÓN DIRECTA

Puede emplearse un cable de conexión directa de módem nulo entre la computadora host Inform y la consola si el recorrido del cable no superara los 50 pies (15,2 m). Los cables con un largo mayor a 50 pies pueden provocar errores de datos, daños en los componentes, o los dos casos, a menos que se instale un módem de corta distancia en la PC y en la consola.

Los conectores de los extremos del cable necesarios para las conexiones locales y remotas se ven en la Tabla 3, y las conexiones de pines para el cable se ven en la Tabla 4.

Tabla 3. Equipos para la conexión de un PC en una consola

Conexión Directa			Conexión Remota		
Modelo de Consola	**Conectores**			**Conectores**	
	@PC	**@Consola**	**Tipo de Modem**	**@Modem**	**@Consola**
TLS-300/TLS-350 Series	Hembra DB-9 o DB-25	Macho DB-25	Modem externo	Hembra DB-9 o DB-25	Macho DB-25
			Modem externo con modulo de interfaz interno RS-232	Hembra DB-25	Macho DB-25
			Modulo Site Fax iterno en consola	---	Tomas de T.E. y línea RJ-11
TLS2		Macho DB-9	Modem externo	Hembra DB-9 o DB-25	Macho DB-9

Tabla 4. Conexiones de pines para cables de módem nulo

@Consola			@PC	
Modelo	**DB-25 en Modulo RS-232 Nro. de PIN (Señal)**	**DB-9**	**DB-9 Nro. de PIN (Señal)**	**DB-25 Nro. de PIN (Señal)**
TLS-300/TLS-350	2 (TX)	---	2 (RX)	3 (RX)
	3 (RX)	---	3 (TX)	2 (TX)
	7 (señal de tierra)	---	5 (señal de tierra)	7 (señal de tierra)
TLS2)	---	3 (TX)	2 (RX)	3 (RX)
	---	2 (RX)	3 (TX)	2 (TX)
	---	5 (señal de tierra)	5 (señal de tierra)	7 (señal de tierra)

Conexión de Módem de Corta Distancia

Para extensiones de cable superiores a 50 pies (15,20 m) recomendamos el uso de un módem asíncrono de corta distancia, Black Box modelo ME800A [consulte la Figura 1 na página 3]: o equivalente. Puede entrar en contacto con Black Box en P.O. Box 12800, Pittsburgh, PA 15241 U.S.A.; teléfono: (724) 746-5500; fax: (724) 746-0746; o en la dirección de Internet *http://www.blackbox.com*.
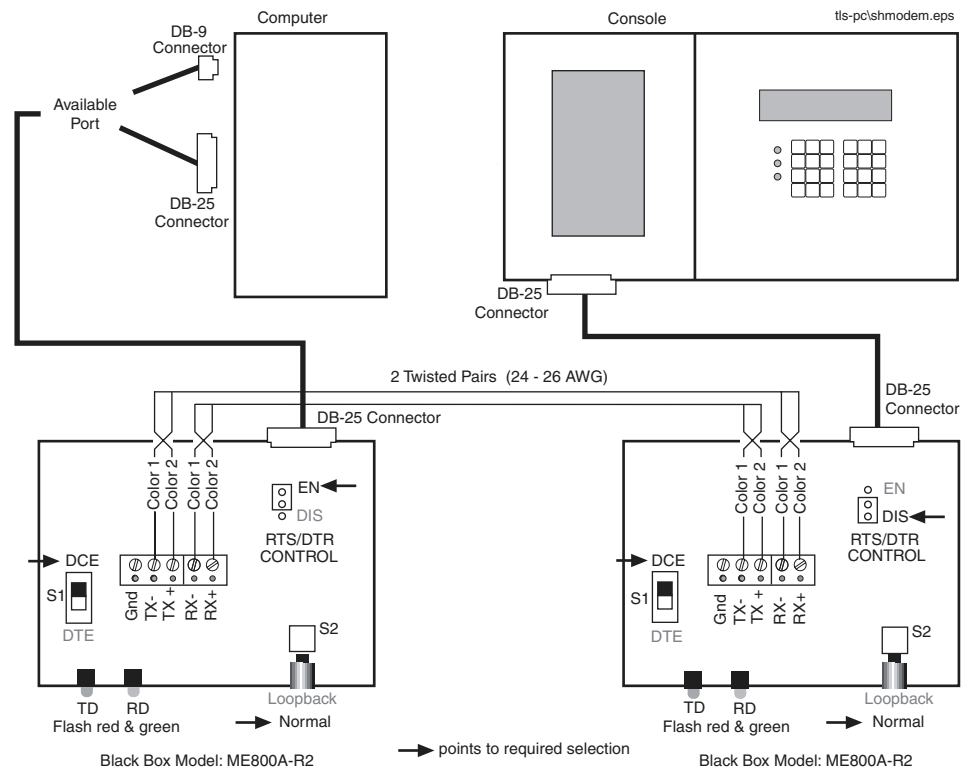
Figura 1. Para conectar una consol TLS a una PC via de módems de corta distancia

Conexión TCP/IP

Para conectar la consola TLS vía TCP/IP, sírvase remitirse a la Guía de Instalación del Módulo de Interfaz TCP/IP (P/N 577013-776) para las instrucciones respectivas.

Para Instalar el Software Inform

Antes de la instalación de Inform, cierre todos los programas en ejecución.

1. Copie el número del formulario (Form No.) y el número de serie (Serial No.) de la etiqueta del CD del Inform. Estos números serán necesarios durante el proceso de instalación. Si fuera una nueva instalación, omita los pasos 2 y 3.
2. (Sólo para actualización) - Localice la carpeta de Inform en el disco duro. Abra la subcarpeta Datos y copie el archivo existente inform.mdb a su área de trabajo. Este paso es necesario ya que la instalación borra el archivo inform.mdb existente en la carpeta Inform).
3. (Sólo para actualización) - Desinstale la versión anterior de Inform en la computadora.
4. Coloque el CD de Inform en el drive de CD de la PC.
5. Haga un clic en el icono Setup.exe. El Asistente de Instalación lo guiará durante la instalación. Nota: en algunas versiones de Inform aparecerá el cuadro para la Selección del Idioma durante este paso. Si esto sucediera, seleccione el idioma apropiado y haga un clic en OK.
6. Haga un clic en Sí para aceptar el Contrato de Licencia. Si hace un clic en No, se interrumpirá la instalación.
7. Haga un clic en Siguiente para aceptar la ruta de destino para el programa Inform.
8. Haga un clic en Siguiente para aceptar los archivos por defecto que serán instalados (Archivos de Windows, Archivos de datos, Archivos de ayuda, Archivos de reportes (inglés)). Haga un clic en los cuadros de verificación en idioma griego, turco o ruso para instalar también los Archivos de reportes para estos idiomas.
9. Haga un clic en Siguiente para aceptar el nombre de la carpeta de programas por defecto.
10. Haga un clic en Siguiente para aceptar los archivos del Inform listados para la instalación, o haga un clic en Atrás para efectuar un cambio.
11. El Asistente de Instalación comenzará a copiar los archivos de Inform en el disco duro. Cuando este proceso haya concluido, aparecerá el cuadro de diálogo Registrar Inform. Ingrese el número del formulario y el número de serie anotados en el Paso 1 anteriormente mencionado. Haga un clic en OK.
12. La instalación de la nueva versión de Inform estará concluida.
13. El cuadro de diálogo de finalización del Asistente de Instalación se desplegará. Si le fuera solicitado, seleccione el botón de opción Sí para reiniciar la computadora host de Inform, y luego haga un clic en el botón Finalizar.

Para Convertir la Base de Datos de un Inform Anterior

1. Haga clic en el botón Iniciar y seleccione Programas > Inform > Convertir Banco de Datos Inform Anterior.
2. Se desplegará el cuadro de diálogo **Conversor del Banco de Datos Inform** (sírvase remitirse a la Figura 2.)
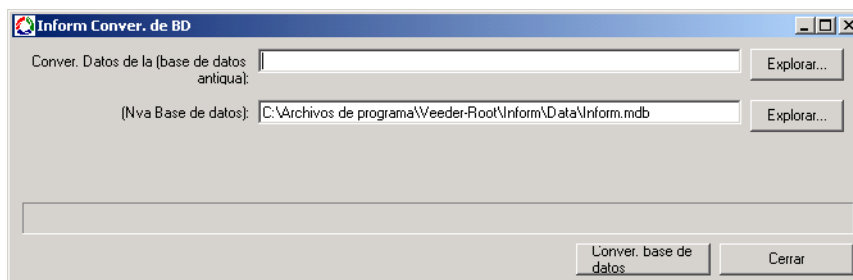

Figura 2. Cuadro de diálogo de conversor del banco de datos de Inform

3. Haga clic en el botón de búsqueda a la derecha de la ventana **Convertir Datos del** (**Banco de Datos Anterior**) y busque el archivo inform.mdb copió en el área de trabajo en la Paso 2 de la Instalación del software de Inform - vea más arriba).
4. Haga clic en el botón de búsqueda a la derecha de la ventana **Banco de Datos Nuevo** y busque el archivo inform.mdb (en la subcarpeta Datos de la carpeta Inform). Haga un clic en el botón **Convertir Banco de Datos**.

Para Ejecutar Inform por Primera Vez

Haga un clic en el ícono Inform en el área de trabajo para abrir el programa. Se desplegará la pantalla de Selección de Sitio. Haga un clic en el botón Ayuda de esta pantalla para abrir el archivo de Ayuda *** ¡ES ESENCIAL LEER EL ARCHIVO DE AYUDA ONLINE PARA UTILIZAR INFORM! ***

Apéndice A: Para comunicarse con medidores que no son TLS

Este apéndice contiene información sobre las comunicaciones de los siguientes medidores:

- RLM 5000/5001 y RLM 9000
- ST1400, 1401, 1401L, 1800, 1801, y 1801L
- Prolink
- Incon

Medidores RLM 5000/5001

A la izquierda del medidor se proveen dos conectores denominados Puerto 1 y Puerto 2 para establecer interfaz con RS-232.

1. Se provee el Puerto 1 para la conexión local con otros dispositivos compatibles con RS-232C. El equipo conectado con cualquiera de los dos puertos RS-232C debe contar con un protocolo de comunicación RS-232C, aparecer en la lista UL, y no debe estar instalado en un sitio peligroso. Los pines de salida del Puerto 1 se ven en la Tabla 1:

2. Se provee el Puerto 2 para conectar el monitor a un módem compatible AT Command Set que se obtuvo en forma local para la operación de auto discado. La conexión a este puerto requiere un cable de comunicación de 6 (seis) conductores (se obtiene en forma local.) Los pines de salida del Puerto 2 se ven en la Tabla 2:

Tabla 1.- RLM 5000/5001 Pines de salida del Puerto 1

Term. No.	Funcion	Entrada/Salida
1	Chas. GND	---
2	TXD	I
3	RXD	O
6	DSR	O
7	Dig. GND	---
20	DTR	I

Tabla 2.- RLM 5000/5001 Pines de salida del Puerto 2

Term. No.	Funcion	Entrada/Salida
1	Chas. GND	---
2	TXD	O
3	RXD	I
7	Dig. GND	---
8	DCD	I
20	DTR	O

Medidor RLM 9000

A la izquierda del medidor se provee un conector para establecer interfaz con RS-232. Los pines de salida se ven en la Tabla 3:

Tabla 3.- Pines de salida RLM 9000

Placa de 7 pines	Conector D de 25 Pines, Hembra, DTE		
	Term. No.	Funcion	Entrada/Salida
Verde	2	TXD	O
Rojo	3	RXD	I
Negro	7	CKT Common	---
Marron	8	DCD	I
Blanco	20	DTR	O

Medidores Series ST

Los medidores para las comunicaciones con ST1400, 1401, 1401L, 1800, 1801, 1801L requieren la Interfaz Red Jacket ST al cable de la PC(P/N RE350-119-5).

Medidores Prolink

CONEXIONES RS-232

Equipo externo RS232 empleado para recolectar datos de la red Prolink vía la tarjeta de red BASICom, así como el POS o el back office de una estación de servicio se remiten a "dispositivos de verificación". El dispositivo de verificación estará conectado al puerto serial DB9 macho en la parte inferior del chasis Prolink. El puerto RS232 de la tarjeta de red BASICom se envía de fábrica ya configurado para DTE. Se sobreentiende que, en lo que respecta a todas las conexiones explicadas en este manual, la tarjeta de red BASICom sigue estando configurada para DTE. La Tabla 4 que se halla a continuación muestra los pines de salida del conector DTE/DCE:

Tabla 4.- Pines de salida Prolink DTE/DCE

Nro. Pin	DTE	Entrada/Salida	Nro. Pin	DCE	Entrada/Salida
1	DCD	I	1	DCD	O
2	RXD	I	2	TXD	O
3	TXD	O	3	RXD	I
4	DTR	O	4	DTR	I
5	Sig GND	---	5	Sig GND	---
6	DSR	I	6	DSR	O
7	RTS	O	7	RTS	I
8	CTS	I	8	CTS	O
9	RI	I	9	RI	O

BASICom en la actualidad utiliza los pines 2, 3, 4, y 5. No se necesitan conexiones 'loop-back' para que BASICom opere. Por lo tanto, sólo se necesita conectar (con una interfaz de 3 cables) 3 pines (2, 3, 5) al dispositivo de verificación. Pueden conectarse pines adicionales, pero BASICom los ignorará.

En la mayoría de los casos puede emplearse el cableado estándar de módem nulo que ya hubiera para conectar la tarjeta de red BASICom al dispositivo de verificación. Muchos fabricantes de dispositivos de verificación ofrecen cables y conectores que están listos para la conexión al monitor del tanque. El extremo del cableado al monitor del tanque puede ser un conector DB25 macho. Si éste fuera el caso, se necesitará un DB25 hembra a un adaptador DB9 hembra para conectar la tarjeta de red BASICom.

Asegúrese que el adaptador tenga tornillos comunes o de mariposa del lado DB9 para cerciorarse que la conexión es segura.

En los casos donde se confeccionan los cables y los conectores en campo, utilice el esquema de conexión de la Tabla 5.

Tabla 5.- Pines de salida Prolink para cables y conectores fabricados en campo

Tarjeta de RedBASICom		Dispositivo de Verificacion
TXD (pin 3)	>	RXD
RXD (pin 2)	<	TXD
SG (pin 5)	< >	SG
DTR (pin 4) - opcional	>	DSR o connección loop-back

Medidores Incon

Las conexiones de comunicación con los medidores Incon dependen del modelo instalado. Sírvase remitirse a la documentación Incon para el detalle de los requisitos de cable necesarios.

Inform

Inform

Inform Inform
Inform

Inform 1

1. Inform

TLS2	1
TLS-300	8
TLS-350	8
TLS-350R	108 309
ST 1400, 1401, 1401L, 1800, 1801, 1801L	12
RLM 5000/5001,9000	0.92
Prolink	1.03b
Incon TS-504	2.109
Incon TS-1000	0.45

Inform PC

2 Inform PC

2. Inform PC

CPU	233MHZ
RAM	128M
	50M Inform 30M
	Windows 95,98,2000,XP Windows NT 4.0
CD-ROM	
	RS-232
Internet	Internet Explorer 5.0

Inform PC 与 TLS

Inform   TCP/IP

                    50   15.2   Inform
                              50   PC

                                                3   4

    3.   PC

	PC				DB-9 DB-25	DB-25
					DB-9 DB-25	DB-25
TLS-300/TLS-350	DB-9 DB-25	DB-25		RS-232	DB-25	DB-25
				SiteFax		& RJ-11
TLS2		DB-9			DB-9 DB-25	DB-9

    4.

	RS-232 DB-25	DB-9	PC	
			DB-9	DB-9
TLS-300/TLS-350	2 TX 3 RX 7		2 RX 3 TX 5	3 RX 2 TX 7
TLS2		3 TX 2 RX 5	2 RX 3 TX 5	3 RX 2 TX 7

50   Black Box

ME800A   Black Box   P.O. Box 12800 Pittsburgh PA

15241 U.S.A   724   746-5500   724   746-0746

http://www.blackbox.com

DB-9

DB-25

DB-25

tls-pc\shmodem.eps

24-26AWG

DB-25

DB-25

Black Box   ME800A   Black Box   ME800A

1.   PC

TCP/IP

TCP/IP   TLS   TCP/IP   P/N 577013-776

Inform

Inform

1.   Inform CD

2   3

2.   –   Inform   Data

Inform..mdb の Inform
Inform..mdb

3. – Inform

4. Inform CD PC CD

5. Setup.exe

Inform

OK

6. Yes No

7. Next Inform

8. Next Windows

[ ]

9. Next

10. Next Inform Back

11. Inform Inform

1 OK

12. Inform

13. Yes Inform

Finish

Inform

1. Start Programs>Inform>Convert Old Inform Database

2. Inform 2

2. Inform

3. **Convert Data From(Old database)** Browse Inform.mdb

Inform.mdb Inform 2 –

4. **New database** Browse Inform.mdb (Inform

Data) **Convert database**

Inform

Inform

Help   *******   **Inform**   *******

A TLS

- RLM 5000/5001 and RLM 9000

- ST1400, 1401, 1401L, 1800, 1801, and 1801L

- Prolink

- Incon

RLM 5000/5001

Port1 Port2 RS232

1.   1   RS232C   RS232C   RS232C
            UL   1

Table 1.- RLM 5000/5001 Port 1 Pin Outs

Term. No.	Function	Input/Output
1	Chas. GND	
2	TXD	I
3	RXD	O
6	DSR	O
7	Dig. GND	
20	DTR	I

2.   2   modem   6

Table 2:   RLM 5000/5001 Port 2 Pin Outs

Term. No.	Function	Input/Output
1	Chas. GND	
2	TXD	O
3	RXD	I
7	Dig. GND	

8	DCD	I
20	DTR	O

RLM 9000

RS232

Table3 RLM 9000 Pin Outs

7 pin J-9 MPU Board	25-Pin D Connector, Female, DTE		
	Term. No.	**Function**	**Input/Output**
GRN	2	TXD	O
RED	3	RXD	I
BLK	7	CKT Common	
BROWN	8	DCD	I
WHITE	20	DTR	O

ST

ST1400, 1401, 1401L, 1800, 1801, 1801L   Red Jacket ST   PC
(P/N RE350-119-5)

Prolink

RS-232

BASICom   Prolink   RS232   POS   PC   "
    ”   Prolink   DB9   BASICom   RS232
DTE   BASICom   DTE   DTE/DCE

Table4   Prolink DTE/DCE Pin Outs

Pin #	DTE	Input/Output	Pin #	DCE	Input/Output
1	DCD	I	1	DCD	O

Pin #	DTE	Input/Output	Pin #	DCE	Input/Output
2	RXD	I	2	TXD	O
3	TXD	O	3	RXD	I
4	DTR	O	4	DTR	I
5	Sig GND		5	Sig GND	
6	DSR	I	6	DSR	O
7	RTS	O	7	RTS	I
8	CTS	I	8	CTS	O
9	RI	I	9	RI	O

BASICom   2   3   4   5   BASICom   3   2   3   5

BASICom

BASICom

DB25   DB25   DB9   BASICom

DB9

Table5   Prolink Pin Outs for Site Fabricated Cables/Connectors

BASICom Network Card		Polling Device
TXD (pin 3)	>	RXD
RXD (pin 2)	<	TXD
SG (pin 5)	< >	SG
DTR (pin 4) - optional	>	DSR or loop-back connection

Incon

Incon   Incon

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